ML-Based Resume Parsing Solution

About BHSoft

Bac Ha Software Co., Ltd. (BHSoft) is a dynamic and fast-moving company in software development and information technology in Vietnam.

Established in 2014, BHSoft has expanded services to worldwide clients from Europe, America, Singapore, Japan and other countries. BHSoft provides the optimum solution that consistently meets customers' needs and applies the latest technologies on customers' projects to make them the best application.

"A brick to build your goals!"

Overview

1 **Situation**
An era marked by **a deluge of job applicants** and **increasingly diversified resume formats** poses a significant challenge for human resources and talent acquisition teams.

2 **Complications**
Manual screening is **overwhelming**, **time-consuming**, and **inconsistent**.

3 **Question**
How to address these challenges by a **more streamlined and efficient** solution **without compromising accuracy** to transform the way recruitment processes are conducted?
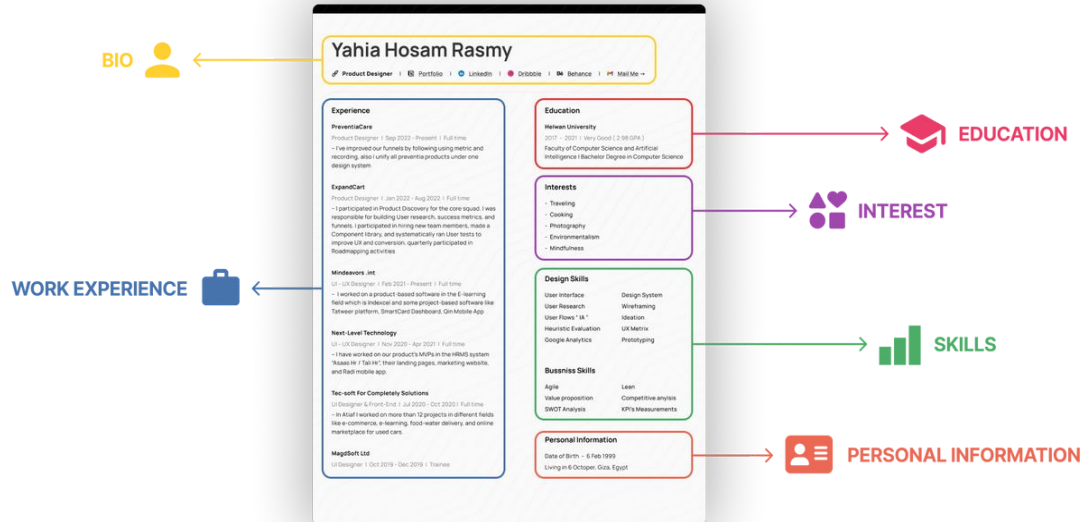
4 **Answer**
A Machine Learning approach for Resume Information Extraction.

Our ML-Based

Resume Parsing Solution

Detect and extract information from resumes formatted as PDF, DOC and DOCX with Machine Learning Model.

BIO

Yahia Hosam Rasmy

Product Designer | Portfolio | LinkedIn | Dribble | Behance | Mail Me

Experience

PreventiaCare
Product Designer | Sep 2022 - Present | Full time
- I've improved our funnels by following using metric and recording, also I unify all preventia products under one design system

ExpandCart
Product Designer | Jan 2022 - Aug 2022 | Full time
- I participated in Product Discovery for the core squad. I was responsible for building User research, success metrics, and funnels. I participated in hiring new team members, made a Component library, and systematically ran User tests to improve UX and conversion, quarterly participated in Roadmapping activities

Mindeavors .int
UI - UX Designer | Feb 2021 - Present | Full time
- I worked on a product-based software in the E-learning field which is Indexcel and some project-based software like Tatweer platform, SmartCard Dashboard, Qin Mobile App

Next-Level Technology
UI - UX Designer | Nov 2020 - Apr 2021 | Full time
- I have worked on our product's MVPs in the HRMS system 'Raaes Hr / Tali Hr', their landing pages, marketing website, and Radi mobile app.

Tec-soft For Completely Solutions
UI Designer & Front-End | Jul 2020 - Oct 2020 | Full time
- In Atlaf I worked on more than 12 projects in different fields like e-commerce, e-learning, food-water delivery, and online marketplace for used cars

MagdSoft Ltd
UI Designer | Oct 2019 - Dec 2019 | Trainee

WORK EXPERIENCE

Education
Helwan University
2017 - 2021 | Very Good (2.98 GPA)
Faculty of Computer Science and Artificial Intelligence | Bachelor Degree in Computer Science

EDUCATION

Interests
- Traveling
- Cooking
- Photography
- Environmentalism
- Mindfulness

INTEREST

Design Skills

User Interface	Design System
User Research	Wireframing
User Flows " IA "	Ideation
Heuristic Evaluation	UX Metric
Google Analytics	Prototyping

Bussniss Skills

Agile	Lean
Value proposition	Competitive anylsis
SWOT Analysis	KPI's Measurements

SKILLS

Personal Information
Date of Birth - 6 Feb 1999
Living in 6 October, Giza, Egypt

PERSONAL INFORMATION

Technology

Pre-trained NLP models
BERT models

Tools
Natural Language Toolkit (NLTK), spaCy library

Programming languages
Python

Machine learning
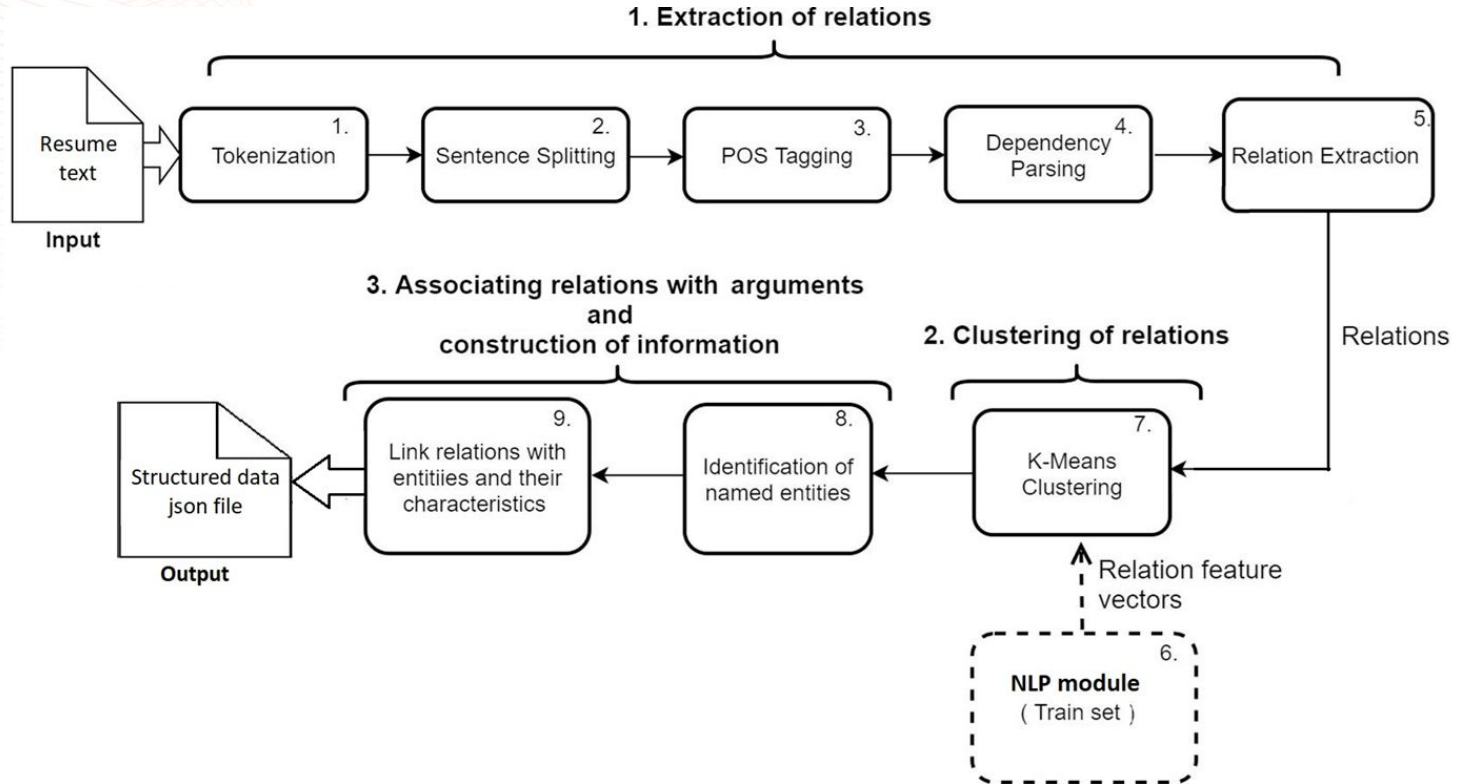BERT, SpaCy, N-gram, Context learning

Technique
OCR (Optical Character Recognition)

Team size & Duration

Team size	2 AI Developers
Duration	12 months

Methodology

Working Phases

Preprocessing → **Text Segmentation** → **NER** → **POS Tagging** →

Clean and preprocess text data to remove any irrelevant or unnecessary information

Divide the text into smaller segments

Identify and extract key entities from the text

Identify parts of speech in the text and determine the role that each word plays in the sentence

→ **Regex-Based Data Extraction** → **Custom Data Extraction** → **Data Validation** → **Integration**

Extract relevant information from the text

Extract specific information from the text using custom rules and algorithms

Validate the extracted data to ensure that it is accurate and complete

Integrate the extracted data into existing database or information system

Technical Details
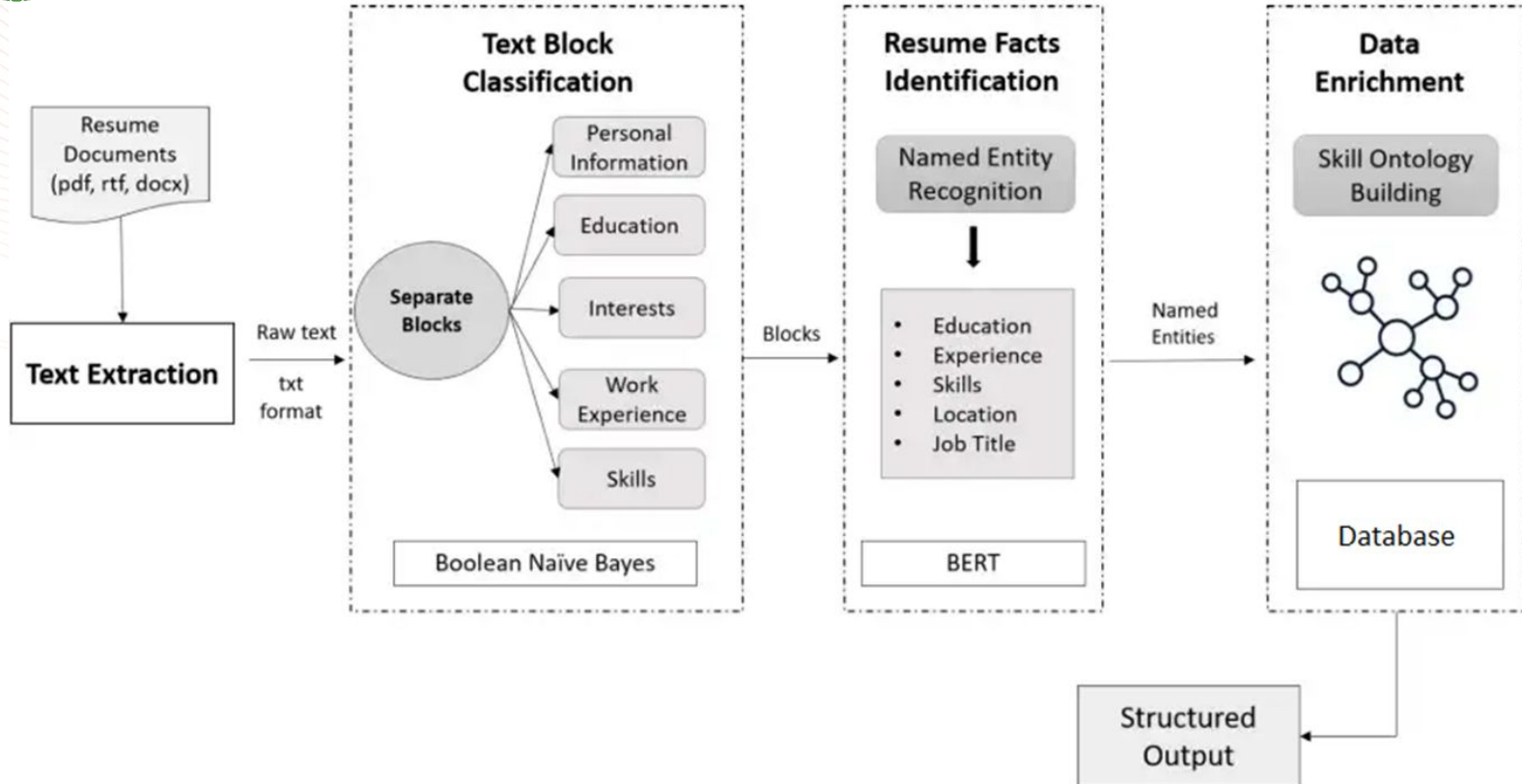
Samples

1   Converted to .txt format

2   Output to raw json

3   Output to final json

4   Final output integrated with an ATS

Original resume

Christa Prosacco

4132 S Tamiami Trail, Sarasota, Florida 34231

(941) 922-5196 christaprosaccoo@gmail.com

Professional Summary

- Seasoned Project Control Manager with over 10 years of experience leading project execution strategy and delivery in the oil & gas, biopharma, and chemical industries.
- Core member of project leadership teams accountable for aligning execution with project goals, corporate guidelines, and client needs.
- Successfully executed major capital projects including biopharmaceutical production facilities, oil refinery expansions, chemical plant construction, midstream pipeline infrastructure, and storage facilities.

Qualifications

Education
- University Technology of Chemistry
BSc (Hons) Chemical Engineering, 2011

Skills
- Primavera, P6 Risk Analysis, Smart Plant/Navis and Milestone Pro

Languages
- English, Mandarin

Professional Experience

EYT PRIVATE LIMITED (2019-2023)
Project Control & Risk Manager

- Developed and oversaw Global Project Reporting (GPR) aligned with corporate KPIs to provide executive leadership with data-driven project health assessments.
- Established comprehensive project controls and risk management frameworks encompassing workflows, tools, scheduling, progress tracking, budgeting, resourcing, KPI dashboards, risk registers, and status reporting. Ensured adherence to corporate project execution standards, priorities, and client needs.
- Monitored project schedule and cost performance closely against approved baselines and contingency budgets using Earned Value, CPM, and risk analysis techniques. Identified threats to major milestones and incentive goals early to enable corrective actions.
- Led staffing plans for project controls team and mentored junior team members. Developed core project control competencies within the organization.

FSTR ENERGY LIMITED (2015-2019)
Lead Planning Engineer

- Established frameworks and managed all key Front End Engineering Design (FEED) deliverables including schedule, procedures, planning tools, performance metrics, monitoring, and reporting.
- Identified critical path priorities and aligned closely with project team to support execution needs.
- Ensured FEED progress reporting complied with project standards and procedures.
- Developed detailed FEED execution schedule, lookahead plans, manpower forecasts, productivity trends, critical path analysis, and periodic progress reporting.

FSTR OVERSEA OPERATION LIMITED (2011-2015)
Lead Planning Engineer

- Conducted rigorous schedule risk analysis to identify threats and implemented targeted risk response controls.
- Implemented planning systems and tools aligned with project execution procedures.
- Identified schedule critical paths to prioritize activities and enable agile response from project teams during construction.
- Ensured integrity of performance reporting to support data-driven management decision making.
- Developed detailed construction schedules, lookahead plans, manpower forecasts, productivity analysis, risk assessments, progress reporting, and sponsor reviews.

Additional Information

Social Media
- www.linkedin.com/in/chris-ta-pro-sacco-4533121

Nationality
- American, citizen

Hobbies
- Cooking, sewing, reading

Expected Salary: USD15K per month

Converted to .txt format

```
 1  Christa Prosacco
 2  4132 S Tamiami Trail, Sarasota, Florida 34231
 3  (941) 922-5196 christaprosaccoo@gmail.com
 4
 5  Professional Summary
 6  Seasoned Project Control Manager with over 10 years of experience leading project execution strategy and
 7  delivery in the oil & gas, biopharma, and chemical industries
 8  Core member of project leadership teams accountable for aligning execution with project goals, corporate
 9  guidelines, and client needs
10  Successfully executed major capital projects including biopharmaceutical production facilities, oil refinery
11  expansions, chemical plant construction, midstream pipeline infrastructure, and storage facilities.
12
13  Qualifications
14  Education
15  University Technology of Chemistry
16
17  BSc (Hons) Chemical Engineering, 2011
18
19
20  Skill
21  Primavera, P6 Risk Analysis, Smart Plant/Navis and Milestone Pro
22
23
24  Language
25  English, Mandarin
26
27  Professional Experience
28  EYT PRIVATE LIMITED
29
30  Project Control & Risk Manager
31
32  (2019-2023)
33
34  Developed and oversaw Global Project Reporting (GPR) aligned with corporate KPIs to provide executive leadership
35  with data-driven project health assessments
36  Established comprehensive project controls and risk management frameworks encompassing workflows, tools,
37  scheduling, progress tracking, budgeting, resourcing, KPI dashboards, risk registers, and status reporting. Ensured
38  adherence to corporate project execution standards, priorities, and client needs
39  Monitored project schedule and cost performance closely against approved baselines and contingency budgets
40  using Earned Value, CPM, and risk analysis techniques. Identified threats to major milestones and incentive goals
41  early to enable corrective actions
42  Led staffing plans for project controls team and mentored junior team members. Developed core project control
43  competencies within the organization.
44  FSTR ENERGY LIMITED
45
46  Lead Planning Engineer
47
48  (2015-2019)
49
50  Established frameworks and managed all key Front End Engineering Design (FEED) deliverables including schedule,
51  procedures, planning tools, performance metrics, monitoring, and reporting
52  Identified critical path priorities and aligned closely with project team to support execution needs
53  Ensured FEED progress reporting complied with project standards and procedures
54  Developed detailed FEED execution schedule, lookahead plans, manpower forecasts, productivity trends, critical
55  path analysis, and periodic progress reporting.
56  FSTR OVERSEA OPERATION LIMITED
```

```
31
32  (2019-2023)
33
34  Developed and oversaw Global Project Reporting (GPR) aligned with corporate KPIs to provide executive leadership
35  with data-driven project health assessments
36  Established comprehensive project controls and risk management frameworks encompassing workflows, tools,
37  scheduling, progress tracking, budgeting, resourcing, KPI dashboards, risk registers, and status reporting. Ensured
38  adherence to corporate project execution standards, priorities, and client needs
39  Monitored project schedule and cost performance closely against approved baselines and contingency budgets
40  using Earned Value, CPM, and risk analysis techniques. Identified threats to major milestones and incentive goals
41  early to enable corrective actions
42  Led staffing plans for project controls team and mentored junior team members. Developed core project control
43  competencies within the organization.
44  FSTR ENERGY LIMITED
45
46  Lead Planning Engineer
47
48  (2015-2019)
49
50  Established frameworks and managed all key Front End Engineering Design (FEED) deliverables including schedule,
51  procedures, planning tools, performance metrics, monitoring, and reporting
52  Identified critical path priorities and aligned closely with project team to support execution needs
53  Ensured FEED progress reporting complied with project standards and procedures
54  Developed detailed FEED execution schedule, lookahead plans, manpower forecasts, productivity trends, critical
55  path analysis, and periodic progress reporting.
56  FSTR OVERSEA OPERATION LIMITED
57
58  Lead Planning Enginee
59
60  (2011-2015)
61
62  Conducted rigorous schedule risk analysis to identify threats and implemented targeted risk response controls
63  Implemented planning systems and tools aligned with project execution procedures
64  Identified schedule critical paths to prioritize activities and enable agile response from project teams during
65  construction
66  Ensured integrity of performance reporting to support data-driven management decision making
67  Developed detailed construction schedules, lookahead plans, manpower forecasts, productivity analysis, risk
68  assessments, progress reporting, and sponsor reviews.
69
70  Additional Information
71  Social Media
72  www.linkedin.com/in/chris-ta-pro-sacco-4533121
73
74
75  Nationalit
76  American, citizen
77
78
79  Hobbie
80  Cooking, sewing, reading
81
82
83
84  Expected Salary: USD15K per month
85
86  🖵
```

Output to raw data json file

```json
1   {
2       "Personal Info": {
3           "Text1": "Christa Prosacco",
4           "Text2": "4132 S Tamiami Trail, Sarasota, Florida 34231",
5           "Text3": "(941) 922-5196 christaprosaccoo@gmail.com",
6           "Text4": ""
7       },
8       "Skill": {
9           "Text1": "Primavera",
10          "Text2": "P6 Risk Analysis",
11          "Text3": "Smart Plant",
12          "Text4": "",
13          "Text5": "Navis",
14          "Text6": "Milestone Pro",
15          "Text7": "",
16          "Text8": "Identified threats to major milestones and i
17          "Text9": "Identified critical path priorities",
18          "Text10": "Developed detailed",
19          "Text11": "Monitored project schedule and cost perform
20          "Text12": "provide executive leadership",
21          "Text13": "Led staffing plans for project controls tea
22          "Text14": "support execution needs",
23          "Text15": "aligned closely with project team",
24          "Text16": "mentored junior team members",
25          "Text17": "Identified schedule critical paths",
26          "Text18": "Ensured integrity of performance reporting"
27          "Text19": "prioritize activities",
28          "Text20": "identify threats",
29          "Text21": "support data - driven management decision m
30          "Text22": "",
31          "Text23": "",
32          "Text24": "",
33          "Text25": ""
34      },
35      "Summary": {
36          "Text1": "Professional Summary:",
37          "Text2": "Seasoned Project Control Manager with over 10 years of experience leading project execution strategy and delivery in the oil & gas, biopharma, and chemical industries ",
38          "Text3": "Core member of project leadership teams accountable for aligning execution with project goals, corporate guidelines, and client needs",
39          "Text4": "Successfully executed major capital projects including biopharmaceutical production facilities, oil refinery expansions, chemical plant construction, midstream pipeline i
40          "Text5": "",

43      "Education & Qualification": {
44          "Text1": "Qualifications:",
45          "Text2": "Education",
46          "Text3": "University Technology of Chemistry",
47          "Text4": "BSc (Hons) Chemical Engineering, 2011",
48          "Text5": "",
49          "Text6": "",
50          "Text7": ""
51      },
52      "Working Experiences": {
53          "Text1": "Professional Experience:",
54          "Text2": "EYT PRIVATE LIMITED ",
55          "Text3": "(2019-2023)",
56          "Text4": "Developed and oversaw Global Project Reporting (GPR) aligned with corporate KPIs to provide executive leadership with data-driven project health assessments ",
57          "Text5": "Established comprehensive project controls and risk management frameworks encompassing workflows, tools, scheduling, progress tracking, budgeting, resourcing, KPI dashboa
58          "Text6": "Monitored project schedule and cost performance closely against approved baselines and contingency budgets using Earned Value, CPM, and risk analysis techniques.",
59          "Text7": "Identified threats to major milestones and incentive goals early to enable corrective actions",
60          "Text8": "Led staffing plans for project controls team and mentored junior team members. Developed core project control competencies within the organization. ",
61          "Text9": "FSTR ENERGY LIMITED ",
62          "Text10": "(2015-2019)",
63          "Text11": "Lead Planning Engineer",
64          "Text12": "Established frameworks and managed all key Front End Engineering Design (FEED) deliverables including schedule, procedures, planning tools, performance metrics, monitori
65          "Text13": "Identified critical path priorities and aligned closely with project team to support execution needs",
66          "Text14": "Ensured FEED progress reporting complied with project standards and procedures",
67          "Text15": "Scope definition of project and identifying the execution challenges and provide insight and input in Project execution procedure.",
68          "Text16": "Developed detailed FEED execution schedule, lookahead plans, manpower forecasts, productivity trends, critical path analysis, and periodic progress reporting.",
69          "Text17": "FSTR OVERSEA OPERATION LIMITED",
70          "Text18": "(2011-2015)",
71          "Text19": " Lead Planning Engineer",
72          "Text20": " Conducted rigorous schedule risk analysis to identify threats and implemented targeted risk response controls",
73          "Text21": "Implemented planning systems and tools aligned with project execution procedures",
74          "Text22": "Identified schedule critical paths to prioritize activities and enable agile response from project teams during construction",
75          "Text23": "Ensured integrity of performance reporting to support data-driven management decision making",
76          "Text24": "Developed detailed construction schedules, lookahead plans, manpower forecasts, productivity analysis, risk assessments, progress reporting, and sponsor reviews."
77      }
78  }
```

Output to semi-structured data json file

```json
{
  "Undefined": {
    "text": ""
  },
  "Personal Info": {
    "text": "Christa Prosacco\n\n4132 S Tamiami Trail, Sarasota, Florida 34231\n\n(941) 922-5196\n\nchristaprosaccoo@gmail.com"
  },
  "Summary": {
    "text": "Professional Summary: \n\nSeasoned Project Control Manager with over 10 years of experience leading project execution strategy and delivery in the oil & gas, biopharma, and chemical industries \n\nCore member of project leadership teams accountable for aligning execution with project goals, corporate guidelines, and client needs \n\nSuccessfully executed major capital projects including biopharmaceutical production facilities, oil refinery expansions, chemical plant construction, midstream pipeline infrastructure, and storage facilities"
  },
  "Education & Qualification": {
    "text": "Qualifications:\n\nEducation\n\nUniversity Technology of Chemistry\nBSc (Hons) Chemical Engineering, 2011"
  },
  "Skill": {
    "text": "Primavera \nP6 Risk Analysis\n Smart Plant\nNavis\n and Milestone Pro\nIdentified threats to major milestones and incentive goals\nIdentified critical path priorities\nDeveloped detailed\nMonitored project schedule and cost performance closely against approved baselines and contingency budgets\nprovide executive leadership\nLed staffing plans for project controls team\nsupport execution needs\naligned closely with project team\nmentored junior team members\nIdentified schedule critical paths\nEnsured integrity of performance reporting\nprioritize activities\nidentify threats\nsupport data - driven management decision making"
  },
  "Working Experiences": {
    "text": "Professional Experience:\n\nEYT PRIVATE LIMITED \n(2019-2023)\n\nDeveloped and oversaw Global Project Reporting (GPR) aligned with corporate KPIs to provide executive leadership with data-driven project health assessments \nEstablished comprehensive project controls and risk management frameworks encompassing workflows, tools, scheduling, progress tracking, budgeting, resourcing, KPI dashboards, risk registers, and status reporting. Ensured adherence to corporate project execution standards, priorities, and client needs\n\nMonitored project schedule and cost performance closely against approved baselines and contingency budgets using Earned Value, CPM, and risk analysis techniques. Identified threats to major milestones and incentive goals early to enable corrective actions\nLed staffing plans for project controls team and mentored junior team members. Developed core project control competencies within the organization. \n\nFSTR ENERGY LIMITED \n(2015-2019)\n\nLed Planning Engineer\n\nEstablished frameworks and managed all key Front End Engineering Design (FEED) deliverables including schedule, procedures, planning tools, performance metrics, monitoring, and reporting \n\nIdentified critical path priorities and aligned closely with project team to support execution needs\nEnsured FEED progress reporting complied with project standards and procedures\nScope definition of project and identifying the execution challenges and provide insight and input in Project execution procedure.\n\nDeveloped detailed FEED execution schedule, lookahead plans, manpower forecasts, productivity trends, critical path analysis, and periodic progress reporting.\n\nFSTR OVERSEA OPERATION LIMITED \n(2011-2015)\n\n Lead Planning Engineer\n\n Conducted rigorous schedule risk analysis to identify threats and implemented targeted risk response controls\nImplemented planning systems and tools aligned with project execution procedures\nIdentified schedule critical paths to prioritize activities and enable agile response from project teams during construction\nEnsured integrity of performance reporting to support data-driven management decision making\nDeveloped detailed construction schedules, lookahead plans, manpower forecasts, productivity analysis, risk assessments, progress reporting, and sponsor reviews."
  },
  "Language speakingan": {
    "text": "English, Mandarin"
  },
  "Social media": {
    "text": "www.linkedin.com/in/chris-ta-pro-sacco-4533121"
  },
  "Nationality": {
    "text": "American, citizen"
  },
  "Hobbie": {
    "text": "Cooking, sewing, reading"
  },
  "undefined": {
    "text": "Expected Salary: USD15K per month"
  }
}
```

Output to semi-structured data json file

```json
1   {
2     "personalDetailInformation": {
3       "name": "Christa Prosacco",
4       "telNumber": [
5         "+941 9225196"
6       ],
7       "email": [
8         "christaprosaccoo@gmail.com"
9       ],
10      "personalID": {
11        "nationality": "American",
12        "countryOfResidence": [
13          "Florida"
14        ],
15        "residenceStatus": "citizen"
16      },
17      "others": {
18        "socialMedia": [
19          "www.linkedin.com/in/chris-ta-pro-sacco-4533121"
20        ],
21        "languageSpeaking": [
22          "English",
23          "Mandarin"
24        ]
25      }
26    },
27    "address": {
28      "streetaddress": "4132 S Tamiami Trail, Sarasota, Flor
29      "postcode": "34231"
30    },
31    "generalInformation": {
32      "avatar": {
33        "personalAvatar": "",
34        "brandName": [],
35        "fileExtension": ""
36      }
37    },
38    "detailedInformation": {
39      "education": {
40        "brief": "Education\n University Technology of Chemistry\nBSc (Hons)| Chemical Engineering, 2011",

54    "careerInfo": {
55      "careerSummary": "\n--\tSeasoned Project Control Manager with over 10 years of experience leading project execution strategy and delivery in the oil & gas, biopharma, and chemical in
56      "employmentHistory": "Professional Experience\nEYT PRIVATE LIMITED\n(2019-2023)\nProject Control & Risk Manager\n--\tDeveloped and oversaw Global Project Reporting (GPR) aligned with
57      "employmentDetailed": [
58        {
59          "periodFrom": "2019",
60          "periodTo": "2023",
61          "company": [
62            "EYT PRIVATE LIMITED"
63          ],
64          "position": [
65            "Project Control & Risk Manager"
66          ]
67        },
68        {
69          "periodFrom": "2015",
70          "periodTo": "2019",
71          "company": [
72            "FSTR ENERGY LIMITED"
73          ],
74          "position": [
75            "Lead Planning Engineer"
76          ]
77        },
78        {
79          "periodFrom": "2011",
80          "periodTo": "2015",
81          "company": [
82            "FSTR OVERSEA OPERATION LIMITED"
83          ],
84          "position": [
85            "Lead Planning Engineer"
86          ]
87        }
88      ],
89      "currentLastCompany": "EYT PRIVATE LIMITED",
90      "currentLastPosition": "Project Control & Risk Manage
91      "periodFrom": "2019",
92      "periodTo": "2023",

95          "salary": 15000,
96          "unit": "USD",
97          "freq": "3",
98          "isExpRmsNegotiable": false
99        }
100     },
101     "skill": {
102       "Hard_skill": [
103         "Primavera",
104         "P6 Risk Analysis",
105         "Smart Plant",
106         "Navis",
107         "Milestone Pro"
108       ],
109       "Soft_skill": [
110         "Identified threats to major milestones and incentive goals",
111         "Identified critical path priorities",
112         "Developed detailed",
113         "Monitored project schedule and cost performance closely against approved baselines and contingency budgets",
114         "provide executive leadership",
115         "Led staffing plans for project controls team",
116         "support execution needs",
117         "aligned closely with project team",
118         "mentored junior team members",
119         "Identified schedule critical paths",
120         "Ensured integrity of performance reporting",
121         "prioritize activities",
122         "identify threats",
123         "support data - driven management decision making"
124       ]
125     }
126   },
127   "otherInformation": {
128     "hobbiesAndInterest": [
129       "Cooking, sewing, reading"
130     ]
131   },
132   "sector": [
133     "Construction",
```

Final output integrated with an ATS

BHSOFT

Christa Prosacco

4132 S Tamiami Trail, Sarasota, Florida 34231
(941) 922-5196 christaprosaccoo@gmail.com

Professional Summary

- Seasoned Project Control Manager with over 10 years of experience leading project execution strategy and delivery in the oil & gas, biopharma, and chemical industries.
- Core member of project leadership teams accountable for aligning execution with project goals, corporate guidelines, and client needs.
- Successfully executed major capital projects including biopharmaceutical production facilities, oil refinery expansions, chemical plant construction, midstream pipeline infrastructure, and storage facilities.

Qualifications

Education
- University Technology of Chemistry
BSc (Hons) Chemical Engineering, 2011

Skills
- Primavera, P6 Risk Analysis, Smart Plant/Navis and Milestone Pro

Languages
- English, Mandarin

Professional Experience

EYT PRIVATE LIMITED (2019-2023)
Project Control & Risk Manager
- Developed and oversaw Global Project Reporting (GPR) aligned with corporate KPIs to provide executive leadership with data-driven project health assessments.
- Established comprehensive project controls and risk management frameworks encompassing workflows, tools, scheduling, progress tracking, budgeting, resourcing, KPI dashboards, risk registers, and status reporting. Ensured adherence to corporate project execution standards, priorities, and client needs.
- Monitored project schedule and cost performance closely against approved baselines and contingency budgets using Earned Value, CPM, and risk analysis techniques. Identified threats to major milestones and incentive goals early to enable corrective actions.
- Led staffing plans for project controls team and mentored junior team members. Developed core project control competencies within the organization.

FSTR ENERGY LIMITED (2015-2019)
Lead Planning Engineer
- Established frameworks and managed all key Front End Engineering Design (FEED) deliverables including schedule, procedures, planning tools, performance metrics, monitoring, and reporting.
- Identified critical path priorities and aligned closely with project team to support execution needs.
- Ensured FEED progress reporting complied with project standards and procedures.

Fields

Name Christa Prosacco
Email christaprosaccoo@gmail.com
Street address 4132 S Tamiami Trail, Sarasota, Florida
Postal code 34231
Phone number (941) 922-5196
Nationality American
Residential status Citizen
Highest Education Bachelor
Name of institute & location University Technology of Chemistry
Year graduated 2011

Languages
English
Mandarin

Skills
Primavera
P6 Risk Analysis
Smart Plant
Navis
Milestone Pro

Social media
www.linkedin.com/in/chris-ta-pro-sacco-4533121

Hobbies
Cooking, sewing, reading

Expected Salary 15000 USD Per Month

Career summary
- Seasoned Project Control Manager with over 10 years of experience leading project execution strategy and delivery in the oil & gas, biopharma, and chemical industries.
- Core member of project leadership teams accountable for aligning execution with project goals, corporate guidelines, and client needs.
- Successfully executed major capital projects including biopharmaceutical production facilities, oil refinery expansions, chemical plant construction, midstream pipeline infrastructure, and storage facilities.

Period From 2019
Period To 2023
Current/Last Company EYT PRIVATE LIMITED
Current/Last Position Project Control & Risk Manager

- Developed detailed FEED execution schedule, lookahead plans, manpower forecasts, productivity trends, critical path analysis, and periodic progress reporting.

FSTR OVERSEA OPERATION LIMITED (2011-2015)
Lead Planning Engineer
- Conducted rigorous schedule risk analysis to identify threats and implemented targeted risk response controls.
- Implemented planning systems and tools aligned with project execution procedures.
- Identified schedule critical paths to prioritize activities and enable agile response from project teams during construction.
- Ensured integrity of performance reporting to support data-driven management decision making.
- Developed detailed construction schedules, lookahead plans, manpower forecasts, productivity analysis, risk assessments, progress reporting, and sponsor reviews.

Additional Information

Social Media
- www.linkedin.com/in/chris-ta-pro-sacco-4533121

Nationality
- American, citizen

Hobbies
- Cooking, sewing, reading

Expected Salary: USD15K per month

Employment history

EYT PRIVATE LIMITED
(2019-2023)
Project Control & Risk Manager
- Developed and oversaw Global Project Reporting (GPR) aligned with corporate KPIs to provide executive leadership with data-driven project health assessments.
- Established comprehensive project controls and risk management frameworks encompassing workflows, tools, scheduling, progress tracking, budgeting, resourcing, KPI dashboards, risk registers, and status reporting. Ensured adherence to corporate project execution standards, priorities, and client needs.
- Monitored project schedule and cost performance closely against approved baselines and contingency budgets using Earned Value, CPM, and risk analysis techniques. Identified threats to major milestones and incentive goals early to enable corrective actions.
- Led staffing plans for project controls team and mentored junior team members. Developed core project control competencies within the organization.

FSTR ENERGY LIMITED
(2015-2019)
Lead Planning Engineer
- Established frameworks and managed all key Front End Engineering Design (FEED) deliverables including schedule, procedures, planning tools, performance metrics, monitoring, and reporting.
- Identified critical path priorities and aligned closely with project team to support execution needs.
- Ensured FEED progress reporting complied with project standards and procedures.
- Developed detailed FEED execution schedule, lookahead plans, manpower forecasts, productivity trends, critical path analysis, and periodic progress reporting.

Equipment Required

ML Server Hardware Required
Mainboard Intel W480, Socket 1200, ATX, 4 RAM DDR4
CPU Intel Xeon W-1370P (3.6 GHz turbo up to 5.2 GHz, 8 cores 16 threads, 16MB Cache, Comet Lake-S)
RAM 32GB DDR4
SSD 512GB M.2 + HDD 2TB
GPU RTX3090 (24GB GDD6X, 384-BIT, HDMI +DP, 2X8-PIN)

Summary

Advantages

The Machine Learning-powered ATS brings substantial advantages to both employers and job seekers.

- To employer: eliminating human error and significantly reducing administrative burden.
- To job seeker: information will be efficiently captured and correctly presented to potential employers, enhances consistency and accuracy.

Potentials

This solution can be applied beyond HR and recruitment. Its continual learning and improvement make it adaptable to other sectors, improving data extraction and understanding of industry-specific terminology for enhanced data processing and analysis in various fields.

GLEAN - AI Chatbot
for Eyecare

Executive Summary

1 **Situation**
Eye diseases are a global health concern, potentially causing severe complications if **not detected timely**.

2 **Complications**
Traditional diagnosis methods are often **time-consuming** and **expensive**, hindering access to timely care.

3 **Question**
How can we **enhance eye disease detection** to mitigate these challenges?

4 **Answer**
GLEAN - AI Chatbot for Eyecare offers a solution streamlining eye disease detection.

Technology

Image Processing

- **Library**: OpenCV, Yolo
- **Techniques**: Iris extraction, Segmentation, Feature extraction
- **Environment**: NVIDIA Cuda

Programming

- **Programming Language**: Python
- **Machine Learning**: Supervised, unsupervised and reinforcement learnings

Text Processing (NLP)

- **Pre-trained models:** LLAMA 2
- **Attention Transformer**
- **Techniques**: Text encoding, self/multi-head attention, semantic analysis

Dev Tools

- **Web tools**: Jupyter, Colab, Huggingface
- **Visual Studio Code IDE**

Stages of Implementation

Data processing
- Distinguish the problem objects
- Chatbot model

Indexing and classification
- Details description of objects
- index
- Indexing dataset for object description
- Segmentation Classification
- Image encoder
- Tokenization

Data retrieval and Transformer
- Transformer
- Target token Text generator

Multimodal - Vision language model
- GAN
- LLAMA encoder/decoder
- VL model based on contrastive learning

Smart bot
- Timeseries (medical history)
- Graph model network
- Chabot

Team size

03 AI developers

Duration

12 months

Workflow

Multimodals

Time Series model (TS)	→	NLP models	→	Image models (IP)	→	Vision-language model (VL)
Events		General medical data		Regular images		General medical queries
Medical history		Specialized medical data		Medical images		Specialized medical queries
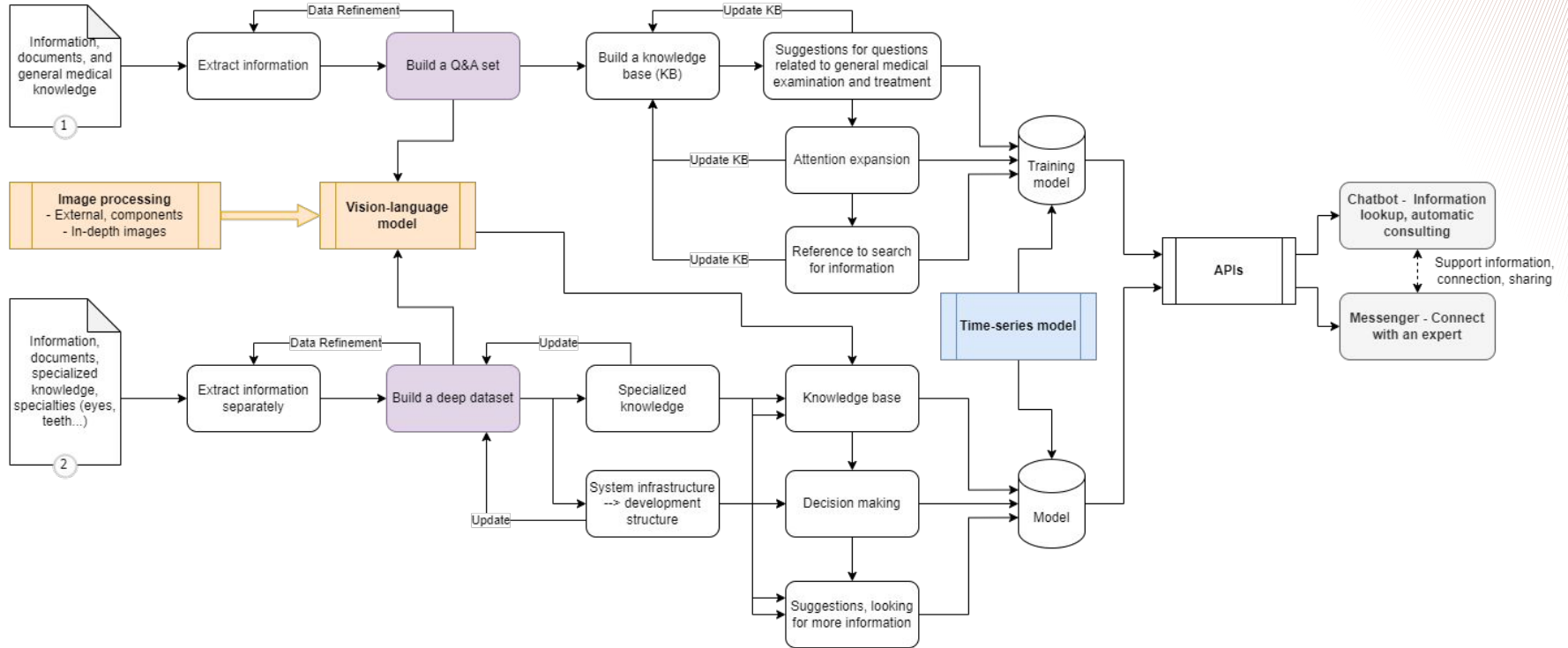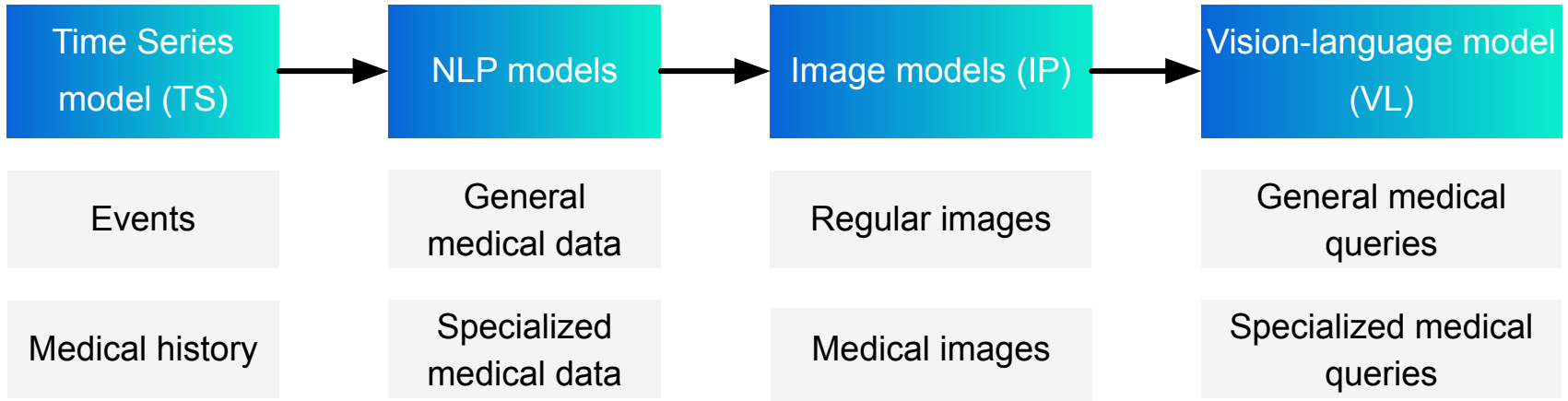
Chatbot Features

1 Role-based access

- Patients
- Doctors

Chatbot Features

2 Messenger

- Chat
- Share chats
- Manage contacts
- Save chat history
- Schedule appointments
- Create groups
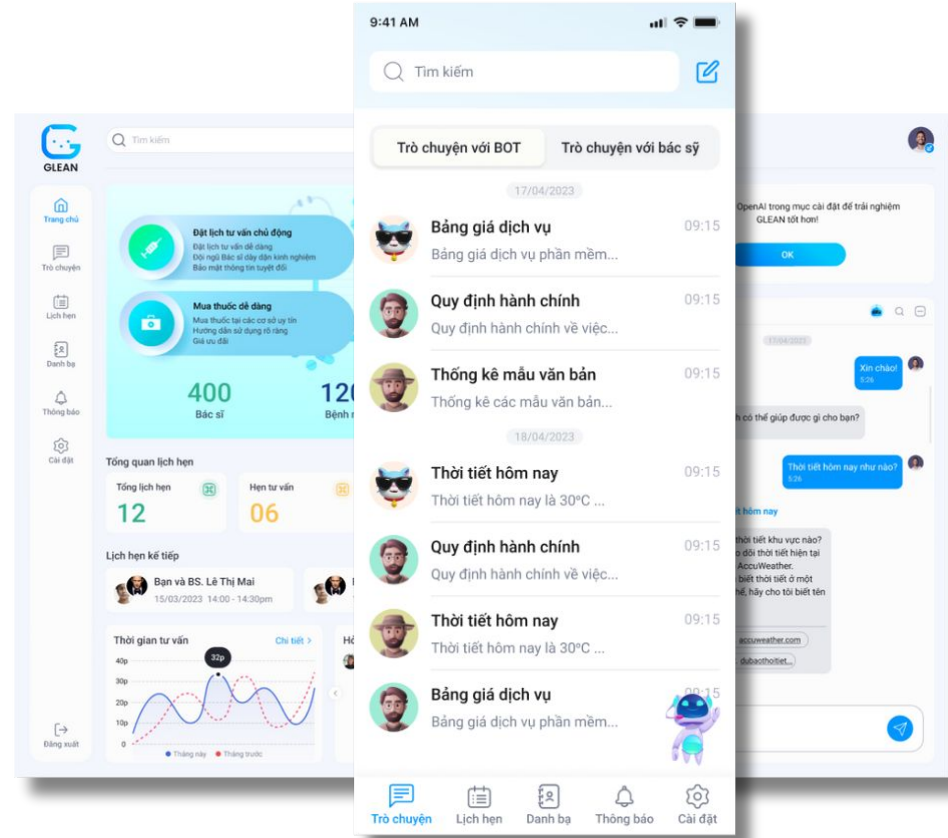
Chatbot Features

3 Notification

- New messages
- Coming calls
- Appointments
- Friend list updates
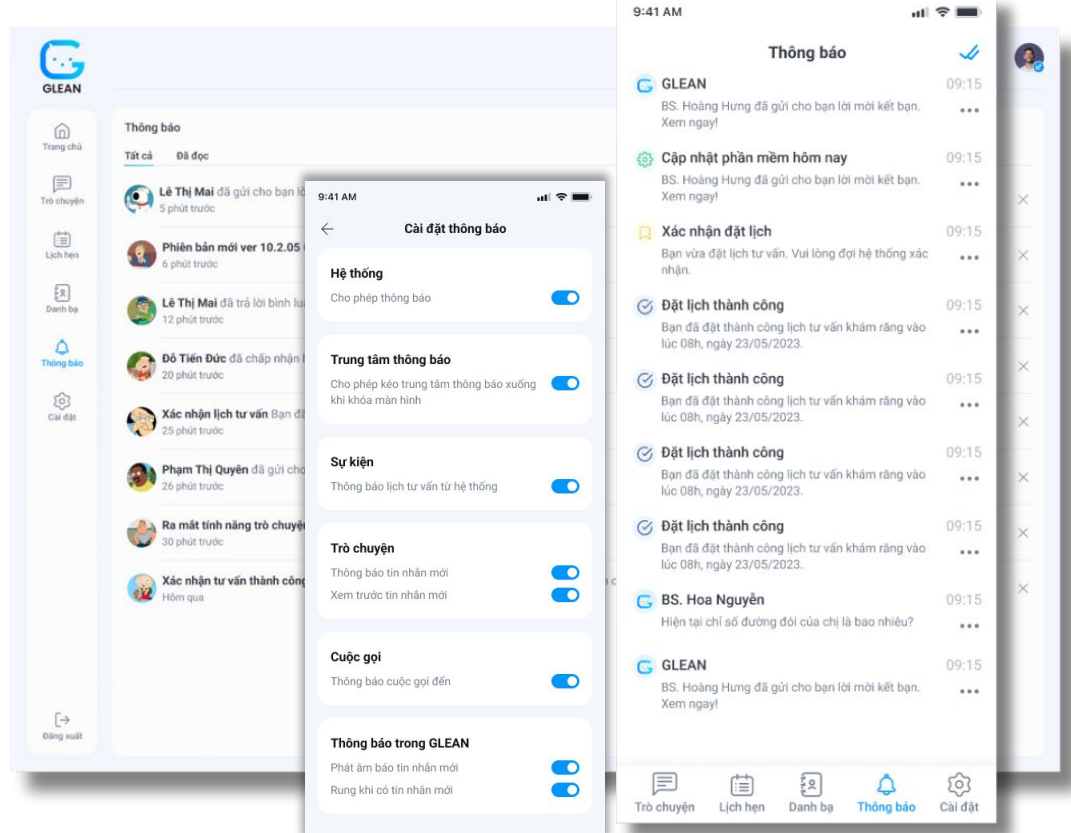
Chatbot Features

4 Profile management
- Name
- Avatar
- DOB
- Gender
- Email
- Phone number
- Country
- Language

Chatbot Features

5 Bot settings

- Image suggestions
- Reading voice
- Reading speed
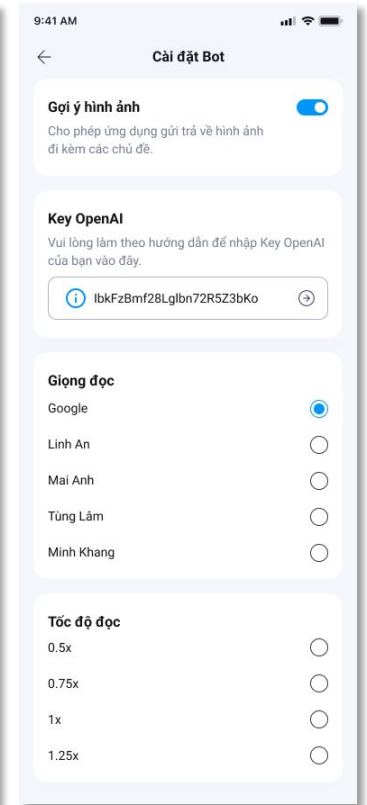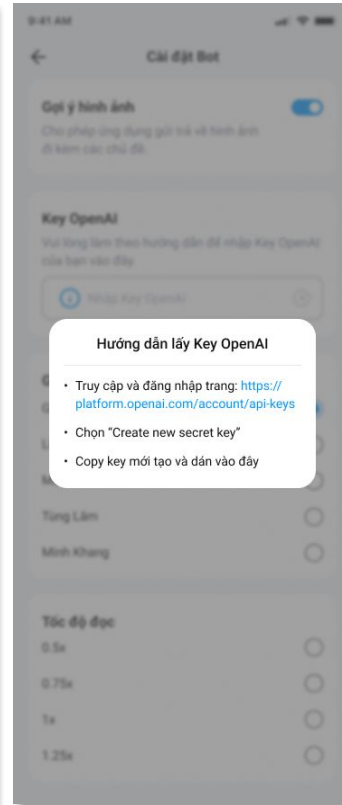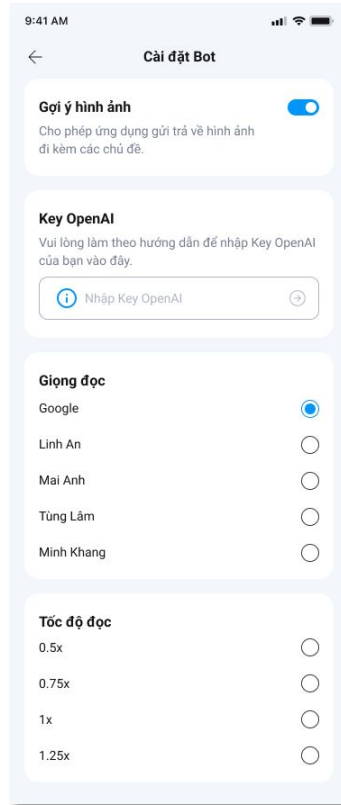
Chatbot Features

5 Image recognition & language processing through images
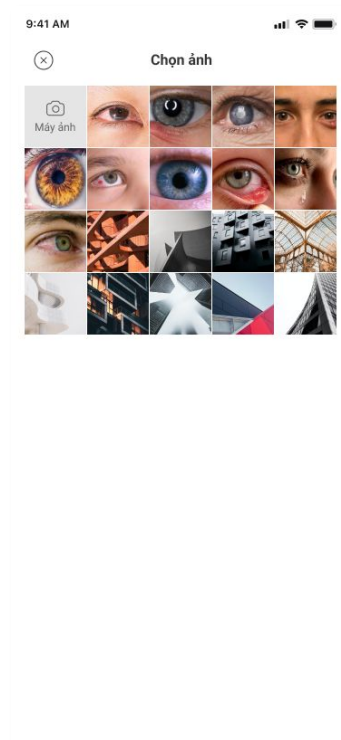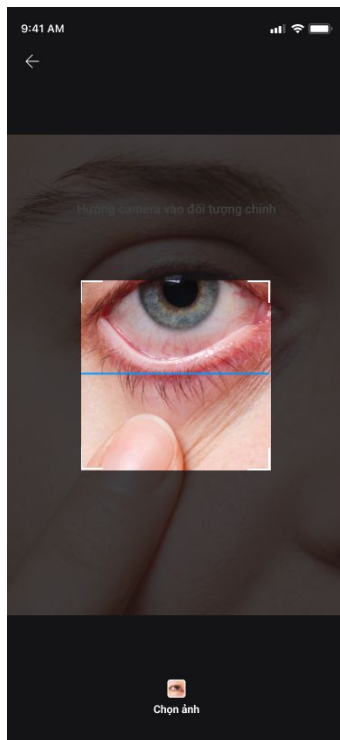
Equipment Required

ML Server Hardware Required
Mainboard Intel W480, Socket 1200, ATX, 4 RAM DDR4
CPU Intel Xeon W-1370P (3.6 GHz turbo up to 5.2 GHz, 8 cores 16 threads, 16MB Cache, Comet Lake-S)
RAM 32GB DDR4
SSD 512GB M.2 + HDD 2TB
GPU RTX3090 (24GB GDD6X, 384-BIT, HDMI +DP, 2X8-PIN)

Summary

Accessibility

Eye care becomes more accessible with a broad network of doctors.

Efficiency

Timely diagnosis reduce delays in medical treatment.

Accuracy

Machine learning can identify signs of diseases with high accuracy.

Cost-Effective

Timely diagnosis reduce treatment costs.

Executive Summary
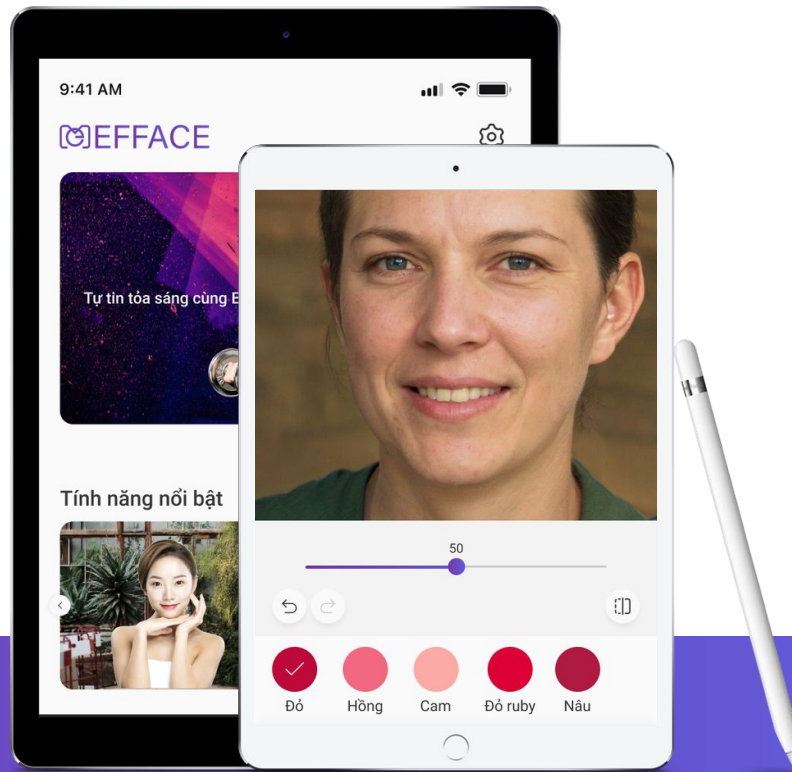
Situation

1 Photo editing complexity deters users from achieving desired results **quickly** and **without professional knowledge**.

Complications

2 It is crucial to create a user-friendly, **AI-driven** photo editing solution, enabling **creativity**, **saving time**, and ensuring **professional** results.

Question

3 How to develop a **photo editing app** for **simplified**, but also **high-quality** editing?

Answer

4 **EFFACE - An intuitive UI and AI-power App** for appealing photo editing with creative features, regular updates for AI improvements and user needs.

Technology

OpenCV (C++)

TensorFlow (Python)

Inpainting

Generative adversarial networks (GAN)

Graph neural network (GNN)

Team size

04 developers

Duration

12 months

Methodology

```
┌─────────────────────────┐     ┌─────────────────────────┐     ┌─────────────────────────┐
│                         │     │                         │     │                         │
│ Feature Data Collection │ ──▶ │   Analyzing Objects     │ ──▶ │ Extracting Object       │
│                         │     │   (Iterator Process)    │     │ Features and Mapping    │
│                         │     │                         │     │                         │
└─────────────────────────┘     └─────────────────────────┘     └─────────────────────────┘
```

Feature Data Collection	Analyzing Objects (Iterator Process)	Extracting Object Features and Mapping
Step 1 Pre-process image layout	**Step 1** Pre-process the image	**Step 1** Analyze data structure
▼	▼	▼
Step 2 Extract object's elements	**Step 2** Analyze main content area	**Step 2** Remove unwanted elements
▼		▼
Step 3 Sort extracted objects by relationship level		**Step 3** Map data

Object Removal Model

Object segmentation/clustering (Obj 1)

Image preprocessing (2D, surface) → Object (or multi-object) detection

Obj 1

Object segmentation/clustering (Obj 2) → Feature extraction (Obj i) → Classifier (Obj i)

Objj n

Object segmentation/clustering (Obj n)

Input data - image or set of images

Image Processing

DATASET (Obj i)

Training set binding

Model training ← Training set feature

Define ML problem and solution

Performance evaluation ← Prediction binding ← Selected model (scoring) ← Test set feature

Test set binding

Neural network

Private ML solution and algorithm - create CNN

1. Identify the general process for image preprocessing, and object identification

2. The process of clustering, fragmentation, and individual characteristics of each object (choose the number of characteristic points depending on the goal and solution)

3. Machine learning, algorithms, and neural networks are separate for each recognition processing solution for each type of object

Big data analysis flow

1	Collect data
	- Device (device sys) --> surface, image - Point cloud: depth camera - Other data sources

2	Input data
	- Image data - Labeling - Relation

3	Data enhancement
	- Object detection - Background extract - Image enhance (night, shapeness, brighter) - Data filter (partial, space, RGB ...)

4	Data segmentation
	- Segement and clustering algorithms - Partial feature extraction - Classification - Data layers - Dataset

5	Data mining
	- Image feature matching - Image pattern

9	OUTPUT
	- 2D surface and data analysis - Object positioning - 2D modeling

8	Data visualization
	- GCN (Graph Convolutional Network) - Space object statistical - Data enrichment

7	Evolution
	- Self-learning - Auto generated data - Auto labeling

6	Data modeling
	- Deep learning - Private models (surface, distance, positioning ...) - Sketch

Editing Features

BHSOFT

EFFACE

1 **Object removal**
- Automatic
- Manual

BHSOFT

EFFACE
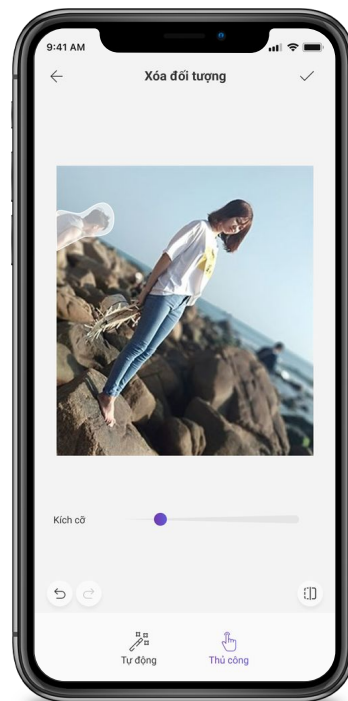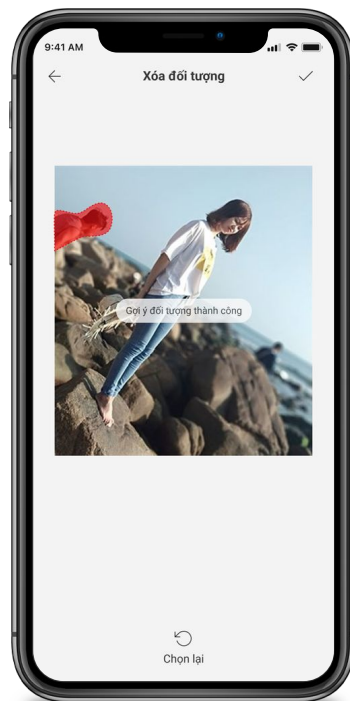
2 **Background removal**

- Automatic
- Manual

BHSOFT

EFFACE
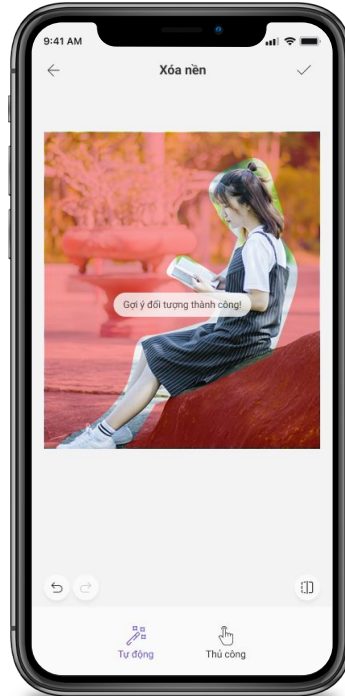
3 **Face replacement**

- Automatic
- Manual

BHSOFT

EFFACE
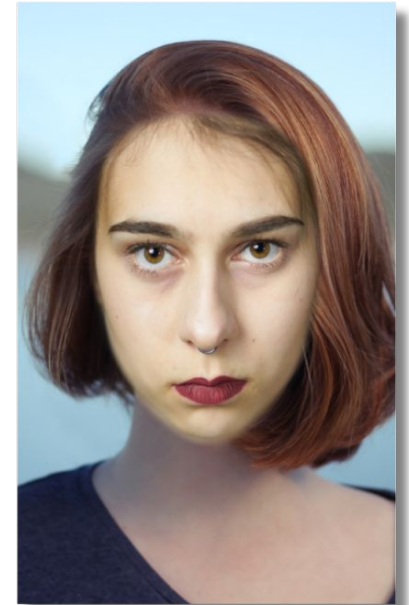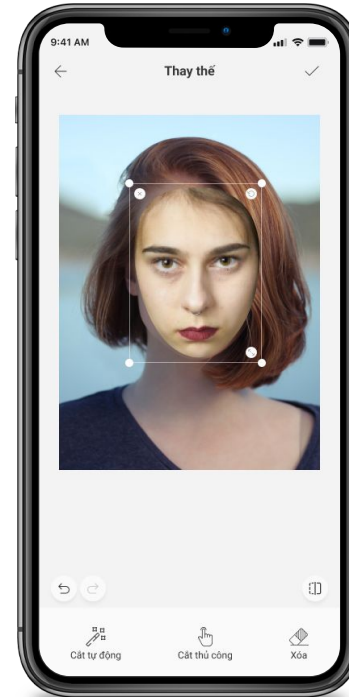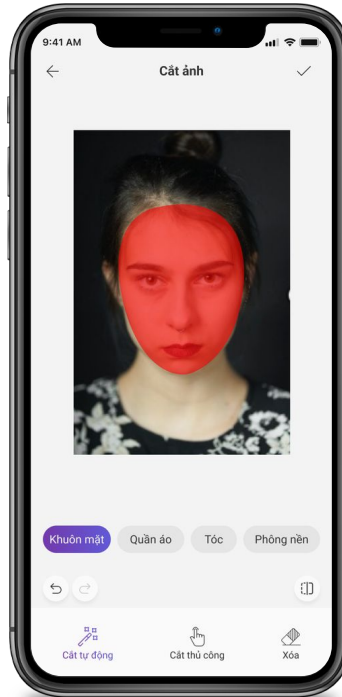
4 **Face mark removal**

- Automatic
- Manual

Editing Features

BHSOFT

EFFACE
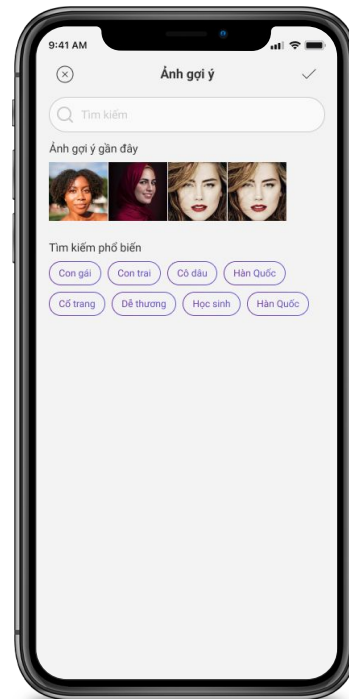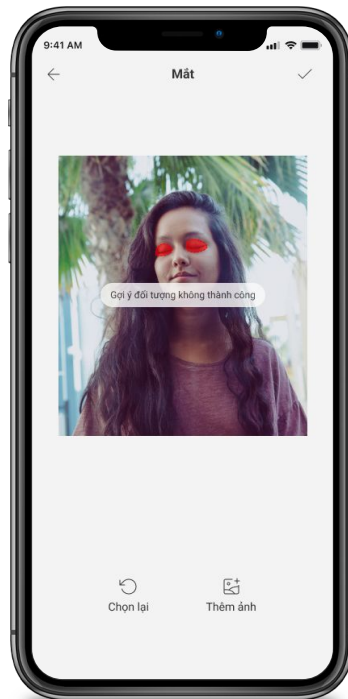
6 **Other features**
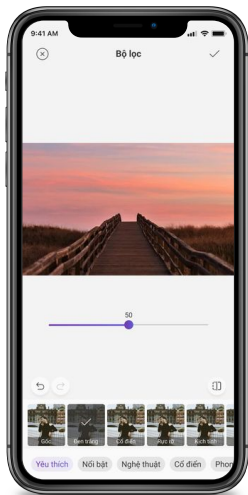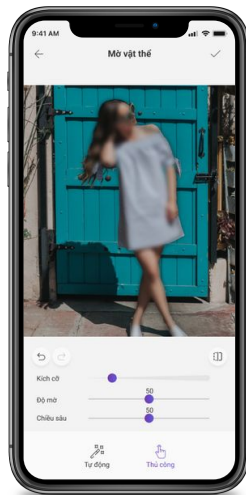
Filtering   Object blur   Collage   Stickers   Face retouching
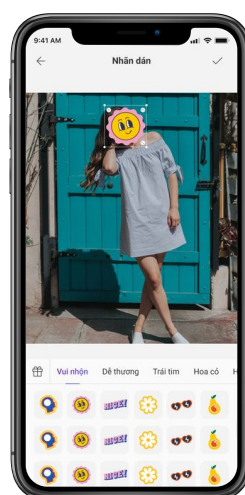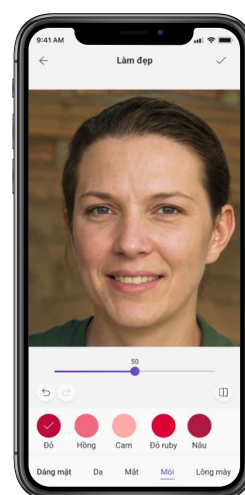
and more…

Equipment Required

ML Server Hardware Required
Mainboard Intel W480, Socket 1200, ATX, 4 RAM DDR4
CPU Intel Xeon W-1370P (3.6 GHz turbo up to 5.2 GHz, 8 cores 16 threads, 16MB Cache, Comet Lake-S)
RAM 32GB DDR4
SSD 512GB M.2 + HDD 2TB
GPU RTX3090 (24GB GDD6X, 384-BIT, HDMI +DP, 2X8-PIN)

BHSOFT **EFFACE**

Summary

Quality Enhancement

Enhancing photos in only one click, instantly make blurry photos clear.

Time and Effort Savings

Aims to streamline editing process, saving users time and reducing manual effort.

Simplified Editing

Emphasis on a straightforward UX, ensuring users can navigate without complexity.

Creative Freedom

Promotes unlimited creativity, enabling users to craft visually appealing images.

MYOPIA
- AR Camera 3D Solution

Executive Summary

1 **Situation**
To identify suitable positions in physical space, people need to repeatedly move objects around, leading to **difficulties** in the process of **relocation and organization**.

2 **Complications**
When applying AR technology, challenges are **uncertainties, hardware limitations, user adaptability issues,** and the **integration of virtual elements into real-world environments**.

3 **Question**
How to **address the complexities** associated with virtually reconstructing space and objects in real-world environments?

4 **Answer**
MYOPIA – AR Camera 3D solution offering a seamless and effective user experience, contributing to the **successful integration into diverse environments**.

MYOPIA
- AR Camera 3D Solution

- BHSoft has developed an Augmented Reality (AR) camera view application for both Android and iOS.

- Using the mobile app, users can take AR 3D objects from the library then drag and drop selected objects to a position in the room view.

Technology

BHSOFT

✓ **Computer Vision & Image Processing**

- TensorFlow
- PyTorch3D
- Keras
- COLMAP
- Marching Tetrahedra
- DMTet

✓ **Mobile Development**

- Kotlin (for Android)
- Swift for (iOS)

✓ **Data Science Platform**

- Anaconda

✓ **GPU Programming & Deep Learning Frameworks**

- NVIDIA CUDA
- NVIDIA Instant NeRFs
- MeshLab

✓ **Database**

- SQLite

Team size

03 developers

Duration
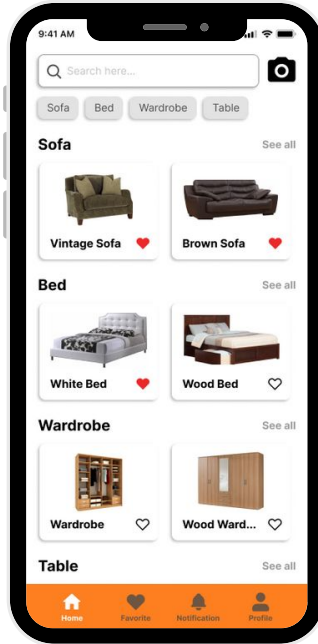
12 months
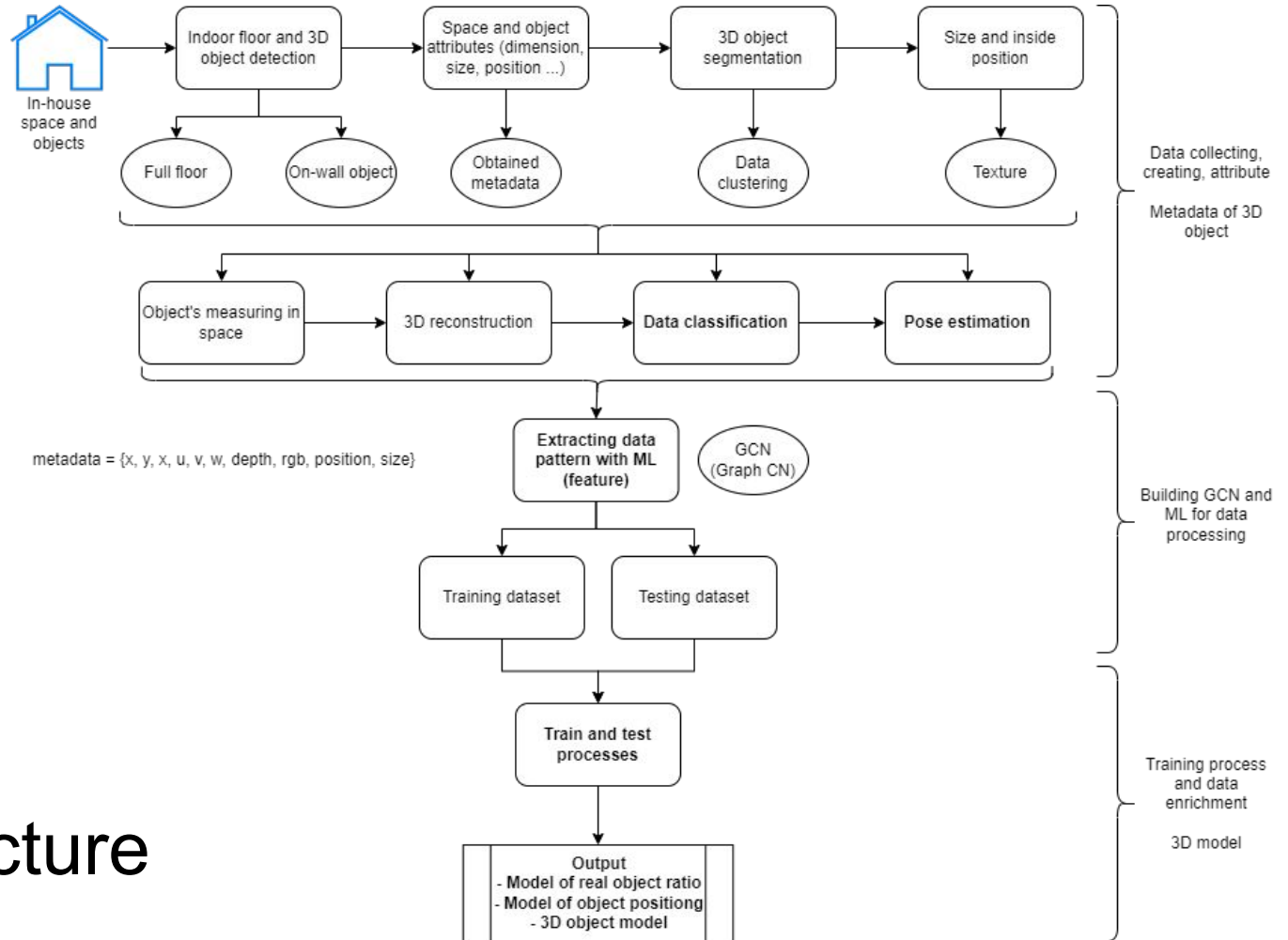
Basic Structure

Big Data Analysis Flow
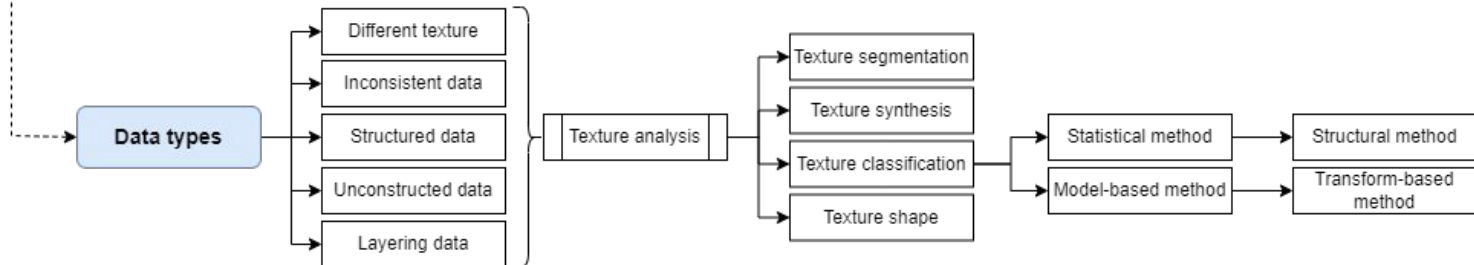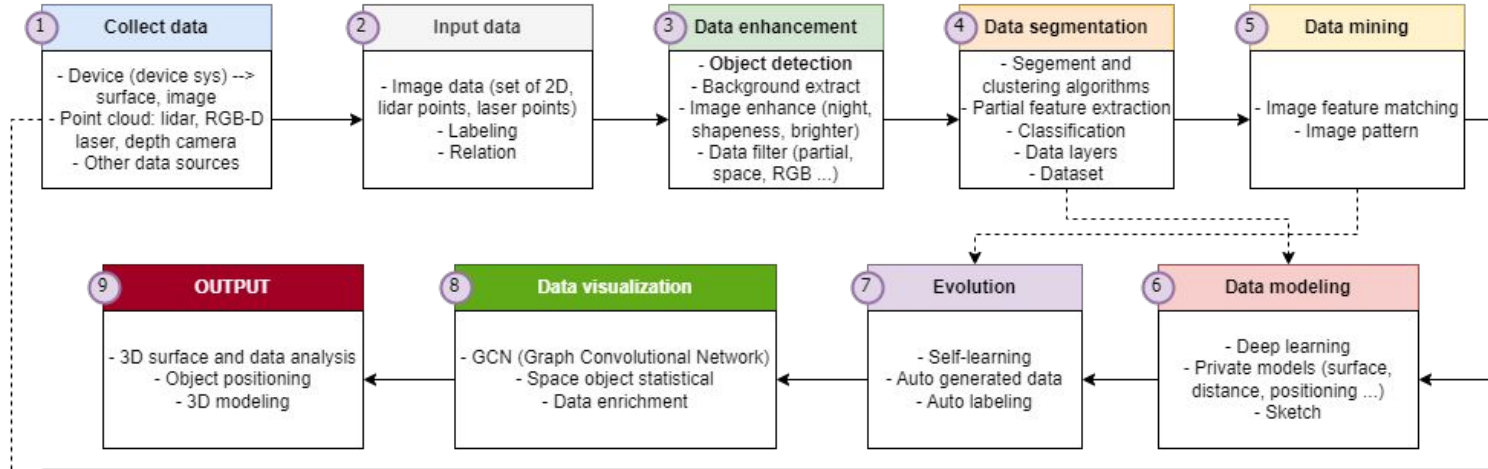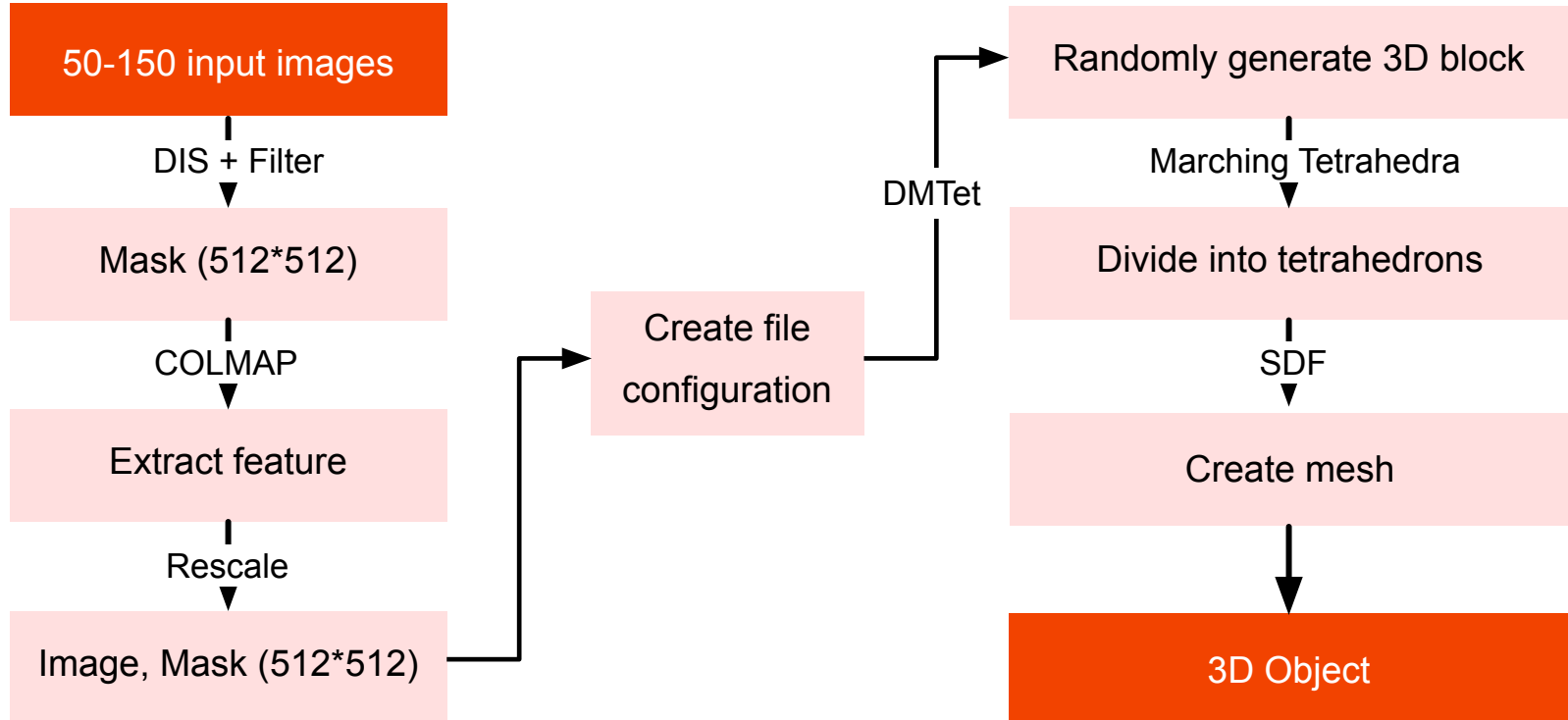
Key Features

1 **Drag 3D objects from gallery to room view**

- Zoom in
- Zoom out
- Switch positions
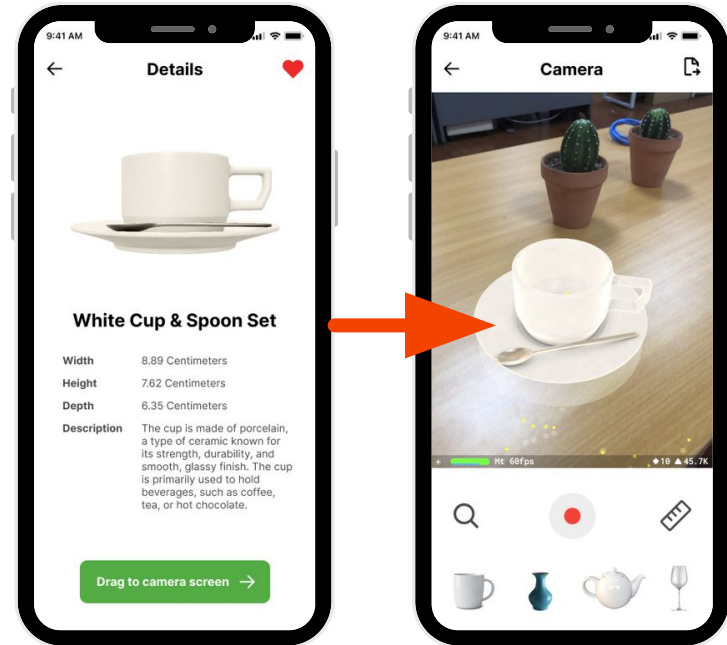- Adjust proximity
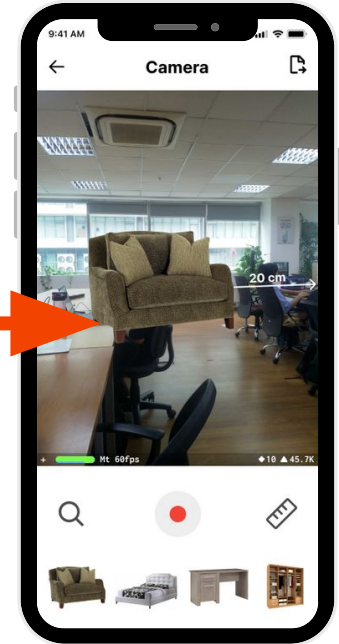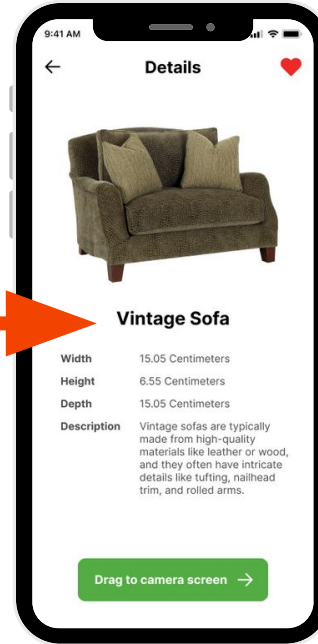
Key Features

BHSOFT

2 **Rotate 3D objects**

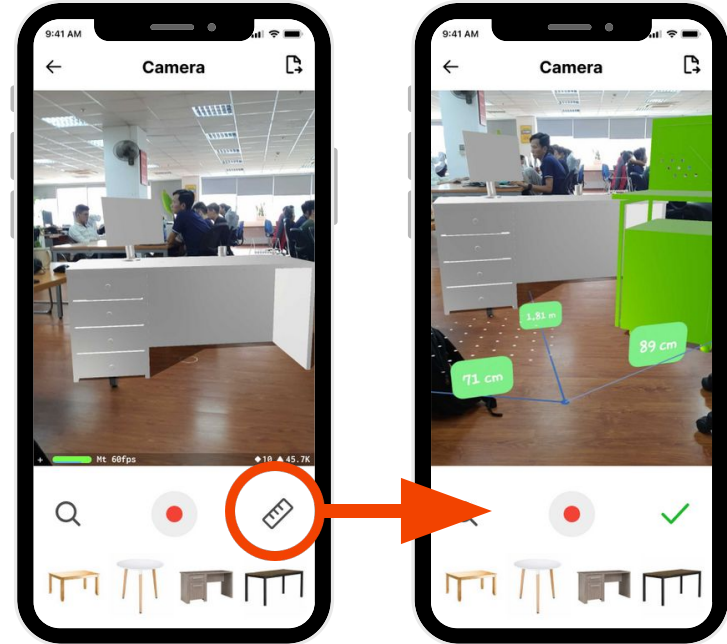- Rotate up
- Rotate down
- Rotate sideways

Key Features

3 **Determine necessary distance when placing objects in indoor room view**

- Export parameters
- Record video of the process

Virtual Try On Glasses

BHSoft is now focusing on developing new features and enriching the libraries of 3D objects with a notable addition being Virtual Try On Glasses feature.

2D Glasses Technique

3D Bounding Boxes and Depth Prediction Networks

Superimpose Virtual Glasses onto Live Face Image Technique

3D Head/Face Model Technique

Equipment Required

ML Server Hardware Required
Mainboard Intel W480, Socket 1200, ATX, 4 RAM DDR4
CPU Intel Xeon W-1370P (3.6 GHz turbo up to 5.2 GHz, 8 cores 16 threads, 16MB Cache, Comet Lake-S)
RAM 32GB DDR4
SSD 512GB M.2 + HDD 2TB
GPU RTX3090 (24GB GDD6X, 384-BIT, HDMI +DP, 2X8-PIN)
Devices Required
iPhone (any version with Lidar)
Android (from version 9 and up)

Summary

Enhanced Vision

Improves visual clarity in real room view.

Real-Time Assistance

Provides dynamic and real-time information.

Customized Features

Offers customized features tailored to specific needs.

Independence

Fosters autonomy, enabling independent navigation.

Contact Us

Email

hello@bachasoftware.com

Phone number

+84 88 616 0880

Website

bachasoftware.com

Head Office

6th Floor, Technosoft Building, 15/8 Duy Tan Str., Cau Giay Dist., Hanoi, Vietnam