

AJINKYA WALUNJ

ajinkya8975@gmail.com

+91 8010535969

Pune, IN

[LinkedIn](#)

[Git-Hub](#)

EDUCATION

Vishwakarma Institute of Technology – B-Tech, Computer Engineering (CGPA - 8.76)

Present

Pune

WORK EXPERIENCE

Cognizant Artificial Intelligence Job Simulation on Forage

[Certificate](#)

Python, Scikit-Learn, Pandas, Machine Learning

May 24 - Jun 24

- Conducted exploratory data analysis using Python and Google-Colab for one of Cognizant's technology-led clients, Gala Groceries.
- Prepared a Python module that contains code to train a model and output the performance metrics for the Machine Learning engineering team.
- Communicated findings and analysis results back to the business.

PROJECT(S)

Customer Churn Prediction

[Source Code](#)

Python, Pandas, Scikit-learn, EDA, Matplotlib

Jun 24-July 24

- Performed data-handling and Exploratory Data Analysis (EDA) to identify trends and patterns in customer behavior.
- Implemented multiple models, including Logistic Regression and Random Forest on both imbalanced and balanced (applied SMOTE) data.
- Evaluated and Compared results of Logistic Regression and Random Forest on both balanced and imbalanced data on classification metric like accuracy, precision, and recall, etc.

Video Translation System (Guided by – Atlas Copco)

[Source Code](#)

Python, Whisper-AI, NLP, Fine-tuning LLM, OpenAI API

Mar 24-May 24

- Successfully implemented speech to text using Whisper-AI which makes subtitle generation much more efficient, and timesaving compared to traditional methods involving SRT file.
- Fine-Tuned LLM (GPT) on videos provided by Atlas Copco to translate text from English to German and French.
- Compared results of subtitle text-translation using BLEU score metric for multiple pre-trained machine-translation models including mBART, Opus-NMT, Deep-Translator, Argos-Trans, Google-Trans, Fine-Tuned LLM.
- Fine-Tuned LLM gave best results i.e., BLEU score: For French – 72.01, For German – 62.01

Fish Species Identification

[Source Code](#)

Python, Deep Learning, Web-Scrapping, Flutter, OpenAI API

Feb 23-Apr 23

- Developed a Mobile Application for Android platforms that identifies the species when uploaded a picture.
- Integrated multiple datasets from various platforms to create a comprehensive dataset.
- Performed Image Data loading, Image Data pre-processing, Model building, Model training, Hyper-parameter-tuning, and real-time location-based pricing.
- Gives an accuracy of 94.55 %. The app was tested on various fishes in local fish markets.

SKILLS

- **Languages:** Java (*Intermediate*), Python (*Beginner*), C language (*Intermediate*), R (*Beginner*), JavaScript (*Intermediate*).
- **Libraries:** Scikit-Learn (*Intermediate*), TensorFlow (*Beginner*), React (*Beginner*).
- **Tools:** Git (*Beginner*), MySQL (*Intermediate*).
- **Others:** Data Structures and Algorithms, HTML, CSS, Natural Language Processing (NLP), DBMS, Operating System, Computer Network, Compiler Design, Artificial Intelligence, Data Science, Object Oriented Programming, Fine-tuning LLMs, Generative-AI, Prompt Engineering.
- **Soft Skills:** Teamwork, Leadership, Communication.

ACHIEVEMENT(S)

- "Fishify: A Mobile-Based Fish Species Identification App with Transfer Learning Using MobileNetV1". Presented at SmartCom 2024 and subsequently Published by Springer. [Link](#)
- "Edu-lingo: A Unified NLP Video System with Comprehensive Multilingual Subtitles", published as research by IEEE in IEEE Xplore. [Link](#)

EXTRA-CURRICULAR

- Volunteered 'Vatsalya' activity conducted by SW&D committee VIT Pune - 2022 [Certificate](#)
 - This activity aims to connect with old age homes and have joyful time with elderly.