Ansh Vahinipati

Pre-Final Year Student | A Passionate & Aspiring Data Science enthusiast

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SKILLS

Programming Languages | Python ● SQL ● C++ ● Apps Script
Front End Development (Basic Knowledge) | HTML ● CSS
Machine Learning | Scikit-Learn ● Tensorflow
Android Development | Dart-Flutter ● Kotlin ● Android Studio
Data Analysis | Excel ● Sheets ● R Programming
Data Visualization | Matplotlib ● Seaborn ● R Studio ● MatLab
Cloud Computing | Microsoft Azure ● Amazon Web Services
Miscellaneous | Git ● Visual Studio Code ● Data Structures & Algorithms ● Competitive Programming

PROJECTS & EXPERIENCE

WiKnow – AI Wine Connoisseur Chatbot

June 2024

A website with voice input/output (Text transcript) to judge the wine quality along with the features to input wine parameters.

- Developed a ReactJS Application with integration to Gemini API so as to get the Text Processing feature with NLP.
- Used react-speech recognition to give in voice input/output.
- Led a team to victory after successful implementation over a span of just 4 days.
- Got a certificate from NTU, Singapore for successful completion of the course and the project.

Key Concepts: ReactJS, Web Development, Voice Recognition, Speech Processing, Natural Language Processing

Zone Refining – Data Visualization & Optimization

October 2023 – August 2024

Worked under Dr. Kaustubh Ghosh (Asst. Professor at VIT). Developed a Machine Learning model for Optimization & Visualization

- Implemented an LSTM model to predict concentration profiles and optimize the Zone Length parameter.
- Authored a Research Paper for this work which is pending to be published in Separation and Purification Technology.
- Applied various Data Visualization techniques using Matplotlib – Creation of line plots, correlation heatmaps and box plots.

Key Concepts: Recurrent Neural Networks, Machine Learning, Visualization Statistics, Python, MATLAB, Excel

Organimate – Recommendation System

March 2023

A **Crop Recommendation System** to ensure seamless phase-wise transition of farmers from conventional to organic farming.

- Implemented the Machine Learning infrastructure using Azure ML. The model was a Voting Ensemble to recommend crops based on the Nitrogen, Phosphorus and Potassium values in the soil
- Integrated the ML model to an Android Application for basic usage.
- Got recognition from different Universities for the novelty of Idea.

Key Concepts: Azure ML, Excel, Python, API Integration, App Development

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY (VITC)
B.Tech, Computer Science Engineering | Chennai | Sep 2022 – Present
CGPA: 8.70

DELHI PUBLIC SCHOOL (DPS)
Class XII – 98.2% | Navi Mumbai

HONORS & AWARDS

BEST ALL ROUNDER | Top 40 internationally selected students | NUS & HPE

IEEE YESIST12 WINNER PRELIMS | Project Organimate won the first prize in the Innovation track amongst top 50 teams | Chennai

COURSEWORKS

NATIONAL UNIVERSITY OF SINGAPORE (NUS)
Academic Internship in partnership with HPE | Singapore
Jun 2021 – Sep 2021

NANYANG TECHNOLOGICAL UNIVERSITY (NTU)
Academic Internship to take a deep dive into Artificial Intelligence. | Singapore
June 2024

AWS APAC SOLUTIONS ARCHITECTURE VIRTUAL EXPERIENCE PROGRAM ON FORAGE
Designed and simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.

OTHER PROJECTS

Smart Traffic Management (Time Series Analysis)
Dark Patterns Detector (LLM Model - BERT)