

PRATHAM AGRAWAL

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EDUCATION

Vellore Institute of Technology, Vellore

Computer Science with specialization in Data Science - CGPA - 9.24

Sep 2020 – Jun 2024

Vellore, India

TECHNICAL SKILLS

Languages: Python, Java, C/C++, HTML, CSS, R, NodeJS, Npm, ReactJs, SQL, JavaScript

Developer Tools: Git, Firebase, Docker, Postman, Anaconda

Framework & Databases: Flask, PyTorch, OpenCV, PIL, Keras, Tensorflow, MySQL, Git, GitHub, YOLOv

EXPERIENCE

CME Group 🔗

Intern in Quant Risk team

May 2023 - Present

Vellore, India

- Streamlining code structure and optimized algorithms to improve performance and reduce computational overhead.
- Analyzing the outputs of the SPAN2 model to identify patterns, trends, and areas for improvement.

Samsung Prism Team 🔗

Research Intern

Nov 2022 - Present

Vellore, India

- Understand and implement the boolean expression tree (BE-Tree) to solve boolean expression.
- Researching to curtail the latency required to evaluate the boolean expression

Hacklab Solutions Pvt Ltd. 🔗

Artificial Intelligence (AI/ML) Intern

Jul 2022 - Nov 2022

Remote, India

- Assisted development of docker container for core image segmentation model from yolov5 to yolov7.
- Worked on leakage detection algorithm based on image segmentation and image processing.

PROJECTS

Clusterbase 🔗 | Python, Sklearn, Plotly, Javascript, CSS

Feb 2023

- Clusterbase is a system that is easily configurable on the number and type of parameters and clustering rules with data fed dynamically.
- Developed an algorithm that would generate clusters according to the schema and the number of clusters required, and accordingly plot the results.

Sportlight 🔗 | Python, NLP, NLTK, JavaScript, CSS

Apr 2022

- Provided a solution for highlights extraction for sport games using Machine learning and APIs, thereby reducing the time of watching a match by 90 %.
- Formulated the NLTK model using wordnet, and NLP which tested out to be 93% accurate

Crypto2Csv 🔗 | Python

Sep 2022

- A python command line interface for retrieving cryptocurrency data in a readable csv format.
- Covered 80+ parameters over a wide range of cryptocurrencies, with various data fetching options like intervals, coins, etc.

Olympics Dataset 2020 Tokyo Dataset 🔗 | Python, R, Tableau, Dash

Mar 2022

- Constructed a dataset comprising 2.7 lakh rows information of about Athletes who participated in the Olympics.
- Developed a web application to illustrate the trends and outliers for 124 years of Olympics History using Python, Dash and Plotly.

EXTRACURRICULAR

The Institution of Engineering and Technology 🔗

Chairperson

Jan 2022 – Jan 2023

Vellore, India

- Established a link between Administration and Chapter to host Technical events which benefited the chapter with 25% net profit.
- Analysed and cultivated the progress of 200+ people in technical and management domains towards achieving outlined objectives.

PUBLICATION

- * IEEE - Computational Approaches for Prediction of Cardiovascular Risks along with API Feed. 2022 🔗
- * Artificial Intelligence at the Healthcare; The Past, present and the Future. 2020 🔗

ACHIEVEMENTS

- Third Place at TRI-NIT Hackathon 2023 for project **Clusterbase** 🔗
- Experion Sponsor Track Winner at Devspace 2022 by CSI-VIT for project **Sportlight** 🔗
- Kaggle Notebook and Dataset contributor with 4 bronze medals. **kaggle** 🔗

Certifications

Google Cloud Computing Foundations Program 🔗