Advait Chirmule

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SUMMARY

I am an enthusiastic student pursuing a Master's in Computer Science at Arizona State University with knowledge in Data Science, Machine Learning, Software Development and Algorithms, and I'm eager to work as an intern at your company.

EDUCATION

Masters Degree, Computer Science August 2023 – May 2025
Arizona State University, Tempe, AZ 3.56 GPA
Relevant Coursework: Fundamentals of Statistical Learning and Pattern Recognition, Foundation of Algorithms, Database Management System Implementation, Software Agility, Software Security, Knowledge Representation and Reasoning

Bachelors Degree, Electronics and Telecommunication August 2019 – May 2023
Thakur College of Engineering and Technology, Mumbai, India 3.79 GPA
Relevant Coursework: Data Structure and Algorithms, Machine Learning, Database Management Systems, Tableau (Summer Course), Professional Skills - Basics of Python, Basics of R, Basics of Java, Cloud Computing, Big Data Analytics

PROFESSIONAL EXPERIENCE

Iotlot, Pune, India: Computer Vision Intern July 2022 – October 2022

- Responsible for building a project on detecting of vehicles using Computer Vision.
- Created dataset by annotating images using labelme, trained using R-CNN and containerized the application using Docker.

Sahu Technologies, Mumbai, India: Web Development Intern October 2021 – December 2021

- In charge for creating websites based on templates provided by company, using HTML, CSS and Javascript.

ACADEMIC PROJECTS

Data Analyst - Volunteer January 2024 – Present

- Working to enhance website engagement by implementing a personalized feed using page ranking techniques.
- Collecting data by scraping website using BeautifulSoup and visualizing using Power BI to understand users' behavior.

Taiga API Extraction - Team Cleveland January 2024 – May 2024

- Built a Taiga project analysis tool using Agile and the Scrum ceremonies. Developed with React frontend, FastAPI backend, Recharts for charts, Docker and Spring Boot for containerization, Sonar for quality control, and Github for version control.

Automatic Music Tagging July 2022 – May 2023

- Developed a model that predicts the music genre for the song provided by the user using neural networks.
- Extracted features using Mel Spectrogram, MFCC, Spectrogram, FFT, etc. using Python's Librosa library to predict the result using the CNN algorithm, and visualized using R's tidyverse and tuneR libraries.

Employee Management System January 2022 – May 2022

- Developed an application enabling users to upload data to MySQL and perform CRUD operations.
- Integrated MySQL with the website using XAMPP and PHP, allowing users to create their database and execute queries.

Air Pollution Analysis July 2021 – December 2021

- Created an Flask app to predicted the AQI using ANN and Stacking (using Decision Trees, SVM, KNN, Linear Regression).
- Capable of predicting output using parameters such as date, concentration of gases and with limited, variable parameters.

PUBLICATIONS

Jailbreaking Proprietary Large Language Models using Word Substitution Cipher, *Under Review in ACL ARR 2024 Feb*

- Developed and implemented innovative cryptographic techniques to encode jailbreaking prompts LLMs.
- Showcased proposed jailbreaking approach's success, achieving a rate up to 59.42% for ChatGPT, GPT-4, and Gemini-Pro.

EXTRA CURRICULAR ACTIVITIES

Deputy Technical Secretary, Thakur College of Engineering and Technology July 2022 – May 2023

- Organized the Hackanova 2.0, a national-level, 30-hour offline hackathon with over 120 participants competing.
- Led the PR Team responsible for promoting the event, and worked with Sponsorship Team to bring in monetary sponsors.