Aarohi Gupta

(603)892-2385 aarohig2@illinois.edu www.linkedin.com/in/aarohi-gupta2211 github.com/aarohigupta

Education

University of Illinois at Urbana-Champaign **Champaign, Illinois**
Bachelor of Science in Computer Science and Minor in Mathematics *Expected Graduation: December 2024*
Honours: Dean's list (Fall 2021, Spring 2022), James Scholar *Cumulative GPA: 4.0*

Relevant Coursework

Introduction to Data Structures and Algorithms with C++, Linear Algebra with Computational Applications, Prob. & Stat. for Computer Sci., Computer Architecture, Discrete Structures

Experience

Disruption Lab at Gies **September 2022 - Present**
Software Engineer *Urbana, Illinois*

- Constructed an NLP model that generates Smart Contracts in solidity on an Agile Development Team with 5 members.
- Conducted research to assess the best methods to evaluate code generating models based on Codegen and Codex papers.
- Analysed and evaluated the model using NLP standards (perplexity) with Weights and Biases.

CS 128: Introduction To Computer Science II **August 2022 - Present**
Course Assistant *University of Illinois at Urbana-Champaign*

- Held office hours for 5+ hours every week to assist a subset of 500+ students with coding problems, machine projects and understanding conceptual issues.
- Presented an revision of the course material taught during the week and solved conceptual issues for 3 hours every week during discussion sections.

Awidit Systems Pvt. Ltd. **June 2019 - July 2019**
Summer Intern *Gurugram, India*

- Worked in a team of 4 to create a CV project that distinguished people based on their clothes using a CCTV camera.
- Learnt and applied Tensorflow to understand a dent detection system for automobiles.

Projects and Organisations

Sentify: Spotify sentiment classification system | *Python, SpotifyAPI, Git* **January 2022 - Present**

- Optimized data acquisition and cleaning from Spotify's API for 90k data points through automation and pipelines
- Identified important features of the data for the ML model through data analysis and visualisation using Matplotlib, Seaborn and Pandas and feature engineering
- Devised an ML system for song sentiment classification (using KNN, XGBoost, Decision trees, CNN) to be used on Spotify's library of 70 million+ songs
- Created an algorithm that uses the ML system to classify songs on the users profile and returns a playlist based on the users mood

BioSignals (as SIGMusic Co-chair) | *PurrData, C++* **January 2022 - April 2022**

- Conceptualised and implemented PurrData code for a randomised drum sequencer using noise gates, oscillators and envelope generators
- Collaborated with a team of 5 to create a PurrData deserializer to merge the drum and melody sequencers with the Arduino.

Sign Language learning system | *Python, Node.js, JS, HTML, CSS, Blender, MediaPipe, Git* **January 2021 - Present**

- Created an NLP based translator that converts English syntax to Indian sign language syntax
- Designed a 3D interface for the application using blender and a-frame
- Created a pitch and demo for the system to showcase to 25 investors at an idea fair and received positive feedback
- Formulated a MediaPipe pipeline for a system that corrects the users hand gestures based on hand location features

Technical Skills

Programming Languages: Python, Java, JavaScript, C++, Git, Markdown (HTML, CSS)
Technologies/Frameworks: Node.js, npm, ReactJS, OpenCV, NumPy, Pandas, TensorFlow, Bootstrap, MongoDB
Developer Tools: Visual Studio Code, Glitch, Heroku, Docker
Relevant Certifications: ApplyAI (AI4ALL); Web development, VR/3D development (Campk12); Intermediate Machine Learning, Introduction to SQL, Pandas (Kaggle)
Languages: English (Native proficiency), Hindi (Native proficiency) and French (Limited working proficiency)