

# AAROHI GUPTA

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## Education

### University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science and Minor in Mathematics

Dean's list / James Scholar

Champaign, Illinois

Expected Graduation: December 2024

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

## Projects

### Sentify: Spotify sentiment classification system | Python, SpotifyAPI, Git

January 2022 - now

- Optimized the process of data acquisition and cleaning from Spotify's API for 90k data points through automation
- Identified important features of the data for the ML model through data analysis and visualisation (making violin plots, histograms, etc) using Matplotlib, Seaborn and Pandas
- Devising an ML system for sentiment classification of songs (using KNN, XGBoost, Decision trees, CNN)
- Creating an algorithm that uses the ML system to classify songs on the users profile and returns a playlist based on the users mood

### Sign Language learning system | Python, Node.js, Javascript, HTML, CSS, Blender, Aframe, Git

January 2021 - now

- 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 investors at an idea fair and received positive feedback
- Currently working on a computer vision based correction system that corrects the users hand positions while signing

### CollegIn: a university research webscraper | Python, Git

July 2020 - October 2020

- Made an open-source ipython notebook that can be used to quickly scrape and download general information regarding universities
- Conducted beta testing to optimise the jupyter notebook's simplicity and ease of use.
- Created a web version of the python notebook using Javascript, Node.js and puppeteer to increase ease of usage

## Experience

### CS 124: introduction to Computer Science I

January 2022 - May 2022

Course Assistant

University of Illinois at Urbana-Champaign

- Record coding walk-through videos to explain topics regarding object oriented programming to students taking the class this semester
- Assist students on conceptual issues, coding problems and machine projects on the help site for the class
- Review course materials including quizzes, coding walk-throughs, and homework questions

### Campk12

May 2020 - July 2020

Teaching Assistant

Gurugram, India

- Co-developed lessons and assignments on python, machine language and image processing (using OpenCV).
- Implemented interactive methods of teaching and testing like idea pitch nights.

### AWIDIT SYSTEMS PVT LTD

June 2019 - July 2019

Summer Intern

Gurugram, India

- Participated in a computer vision project to distinguish people based on the colour of their clothes using a CCTV camera.
- Improved a dent detection system for automobiles using TensorFlow.

## Technical Skills

**Programming Languages:** Python, Java, JavaScript, C++, Git, Markdown (HTML, CSS)

**Technologies/Frameworks:** Node.js, npm, ReactJS, OpenCV, NumPy, Pandas, TensorFlow, Bootstrap

**Developer Tools:** Visual Studio Code, Glitch, Heroku, Docker

**Relevant Certifications:** ApplyAI (AI4ALL), Web development (Campk12), VR/3D development (Campk12)

**Languages:** English (Native proficiency), Hindi (Native proficiency) and French (Limited working proficiency)