

## **Advait Chirmule**

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### **Education**

#### **Masters of Science, Computer Science**

Expected May 2025

Arizona State University, Tempe, Arizona

Subjects: Software Security, Foundation of Algorithms, Fundamentals of Statistical Learning and Pattern Recognition

#### **Bachelors of Engineering**

May 2023

Thakur College of Engineering and Technology, Mumbai, India

9.39/10

Relevant Subjects: Machine Learning, Data Structure and Algorithms, Professional Skills - Basics of Python, Basics of R, Basics of Java, Principals of Programming Language, Big Data Analytics, Cloud Computing, Database Management Systems, Microprocessors, Peripherals & Interfacing, Microcontrollers and Applications

### **Work Experience**

#### **Computer Vision Intern, iotiot.in**

July 2022 - October 2022

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

#### **Web Development Intern, Sahu Technologies**

October 2021 – December 2021

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

### **Projects**

#### **Automatic Music Tagging**

July 2022 - May 2023

- Created a project taking a music snippet and predicts the tag using CNN algorithm.
- Extracted features using Mel Spectrogram, MFCC models, Spectrogram models using the Librosa library and predicted the result using CNN algorithm.

#### **Air Pollution Analysis**

July 2021 - May 2022

- Built a project in Python and utilizing the ML algorithms of ANN and Stacking (using ANN, Decision Trees, SVM, KNN, Linear Regression). Capable of predicting output even with one parameter, using historical data.
- Implemented the front-end using Flask to link the project using HTML, CSS, Javascript.

#### **GRE Word Games**

January 2021 - May 2021

- Deployed an Android application using Android Studio to add words and memorize.
- Connected the application to the Firebase database to store words online to enable access to account anywhere.

### **Competitions**

#### **Smart India Hackathon**

March 2022 – August 2022

- Top 5 at national level in the Smart India Hackathon, Hardware edition for building a control system reducing the power usage and wiring required, and interfacing system through Rest API for users to control the lights.

### **Experience**

#### **Deputy Technical Secretary**

July 2022 - June 2023

- Organized the Hackanova 2.0, a national-level, 30-hour offline hackathon with over 120 participants competing in various problem statements.
- Oversaw the PR Team responsible for going class to class to promote the event in the college and distributing the message in other colleges. Worked with the Sponsorship Team to bring in monetary sponsors for the event.

#### **Secretary, IEEE-TCET Student Body**

July 2021 - June 2022

- Managed the attendance, report writing and the certificate distribution of the events conducted.
- Supervised conduct of various technical events, including ZEPHYR and Multicon, two inter college events.

#### **Junior Council Member, National Service Scheme**

July 2020 - June 2021

#### **Volunteer, National Service Scheme**

July 2020 - June 2022

- Carried out administrative work of the Unit as the Junior Council Member.
- Volunteered in various projects including but not limited to blood donation camp, promoting government schemes targeted towards the poor, raising awareness on social topics.