

Aroosh Joshi

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Summary —

I am an aspiring professional in the field of Data Science and Machine Learning. I have hands-on experience in developing data-driven solutions, including data preprocessing, statistical analysis, and the application of machine learning algorithms to extract actionable insights. My problem-solving skills and proficiency in handling large datasets enable me to tackle complex challenges effectively. I am eager to contribute to innovative data science projects while leveraging my skills to drive impactful result.

Skills

Languages Python, C++ , Javascript	Machine Learning Sci-kit Learn, Tensorflow, Keras , PyTorch
Core Skills - DBMS, DSA, CCN, OS	Backend Development Django, Django REST Framework,JWT
Data Analysis Numpy, Pandas, Matplotlib, Seaborn	Frontend Development React.js, Tailwind css

Projects

SignLingo - A Sign Language Teaching App

Feb 2024 – May 2024

<https://github.com/ShubhamKarampure/asl-streamlit-signlingo>

- Collaborated with a team of 3 to develop an interactive sign language learning platform where users can learn, practice, and test their knowledge of American Sign Language through hand gesture recognition.
- Collected image data using OpenCV, extracted hand keypoints using Mediapipe, and trained a RandomForest model for gesture classification.
- Integrated the model into a web backend using the Pickle library to enable live gesture prediction on the website.
- Gained practical experience in the complete pipeline of a Computer Vision project, including data collection, model training, and deployment.

Product Attribute Detection from images

Sept 2024

<https://github.com/ArooshJ/AmazonMLChallenge24>

- Achieved team Rank 654 out of 15k+ Teams in Amazon ML Challenge 2024.
- Tackled a dataset of 250,000+ product images to detect attributes like weight, volume, and dimensions, predicting both values and their respective units.
- Preprocessed and postprocessed entity values (units and numbers) using regex, normalization, scaling, and entity-specific transformations.
- Collaborated on model ideation and training and suggested improvements.
- Performed hyperparameter tuning for ANN heads used for classification and regression tasks after feature extraction using the Vision Transformer (ViT) model.
- Gained valuable experience handling large-scale datasets and solving real-world problems.

Navacado - A College Attendance Management API

Sept 2024

<https://github.com/ArooshJ/Navacado>

- Developed an attendance management API that allows faculty and students to track attendance and statistics across courses.
- Designed the database schema using MySQL to store information about courses, lectures, attendance, students, and faculty.
- Built a REST API using Django REST Framework, integrating JWT-based authentication and role-based access control for secure attendance marking and statistics retrieval. .

Experience

IEEE CS SPIT

Sep 2023 – Jul 2024

Deputy Tech Head

- Co-Led the Technical aspect of all the major and minor events of the committee, including a National Level AI Hackathon Aeravat, and monthly coding contests, online and offline.

IEEE SPIT

Dec 2022 – Jul 2024

SubCommittee Member

- Contributed to the PR campaigns of various events of the committee, and volunteered for various offline events of the committee

Education

Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology, Mumbai <i>BTech.in Computer Science and Engineering (Data Science)</i> <i>CGPA - 8.8 (As of Semester 4)</i>	Nov 2022 - 2026
SP Jain Institute of Management and Research, Mumbai <i>Minor in Management</i>	Feb 2024 - 2025
Royal Junior College <i>HSC(Std. 12) - 91.20 %</i>	2020 - 2022
Carmel Convent High School <i>SSC(Std. 10) - 96.2 %</i>	2007 - 2020