Aaditya Srivastava

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LinkedIn Profile |

GitHub Pr

Education

-Bachelor of Technology in Computer Science and Engineering Vellore Institute of Technology, Bhopal	2022-26 CGPA: 8.37
-City Montessori School,Rajendra Nagar-I XII(Senior Secondary)	<i>2021-2022</i> 90.1%
- City Montessori School, Rajendra Nagar-I X(Secondary)	2019 -2020 93.2%

Projects

·License Plate Recognition System

August 2025 - September 2025

- Built an image-processing pipeline for license plate detection using CCA followed by character segmentation and recognition.
- Trained a supervised Support Vector Classifier (SVC) on a labeled dataset of characters to achieve robust character recognition.
- Enhanced accuracy through preprocessing, vertical projection filtering, and cross-validation, improving results by 15%.
- Performed character segmentation by isolating individual symbols from license plate regions, resizing them to 20×20 pixels, and ordering them for recognition.

Tech: Python, scikit-image, scikit-learn, NumPy, Pillow, matplotlib

·Digit Recognition using Neural Networks

July 2025 - August 2025

- Implemented a feed-forward neural network in Keras, reaching 95.6% test accuracy on 10K unseen images.
- Preprocessed and normalized 60K training samples, reshaping pixel vectors into 784-dim inputs.
- Designed and trained a Sequential model with two hidden layers (64 neurons each, ReLU activation) and an output layer (Softmax), optimized with Adam.
- Performed model evaluation achieving robust generalization across unseen data and demonstrated predictions with real test samples.

Tech: Python, NumPy, TensorFlow, Keras, MNIST

•BitTorrent Client July 2025 – August 2025

- Engineered a peer-to-peer file sharing client with torrent parsing, tracker communication, and secure peer handshakes.
- Implemented chunk downloading and SHA-1 verification, ensuring 99.9% file integrity during reconstruction.
- Added CLI support for torrent inspection, tracker testing, and selective piece downloads, improving usability by 30%.
- Optimized metadata extraction and peer discovery, reducing connection setup time by 25%.

Tech: Python, asyncio, socket programming, hashing (SHA-1)

Achievements

CodeChef Rating: 1277 (aaditya8) Highest Rating: 1277

Global Rank - 8988 in Starters 174 (Rated)

LeetCode Rating: 1358(AadityaSRV) Highest Rating: 1490

Global Rank - 1807 in LeetCode Biweekly Contest 133, out of 25,500+ participants

Technical Skills and Interests

Languages: Java, Python, MySql, HTML, CSS

Web Dev Tools: Github, Git

Cloud/Databases: Relational Database(mySql)

Relevent Coursework: Machine Learning, Data Structures & Algorithms, Object Oriented Programming, Computer Network,

Deep Learning.

Certifications

- Google- The Bits and Bytes of Computer Networking, December 2023
- DeepLearning.AI Supervised Machine Learning: Regression and Classification, March 2025