Aditya Kumar

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Education

VIT University	June 2022 – Ongoing

B.Tech. in Computer Science Engineering
CGPA: 8.80

Delhi Public School Eldeco, Lucknow	May 2021

Class XII - 83.5%

Delhi Public School Eldeco, Lucknow	May 2019

Class X - 83.5%

Technical Skills

Programming Languages: Java, C++, Python, MySQL , JavaScript.
Libraries & Tools: OpenCV, YOLO v3, CNN, OpenAI, Tensorflow, Keras, PowerBI
Soft Skills: Adaptive mindset, Efficient technical communication, Cross-functional collaboration.

Projects

Stock Market AI Prediction Model (Python, Tkinter, SQL, Scikit-learn , TensorFlow , Matplotlib)
- Developed a stock market prediction tool comparing the performance of SVM, ANN, and Linear Regression models on historical stock data.
- Implemented a Tkinter GUI with secure SQL-based login authentication.
- Concluded that ANN provided better generalisation on unseen data
- Applied data preprocessing, normalization, and k-fold cross-validation

Autism Spectrum Disorder Detection (Python, Pandas, Matplotlib , Scikit-learn)
- Built a machine learning classifier to detect Autism Spectrum Disorder using behavioral and demographic data.
- Used Random Forest, KNN, and SVM classifiers to evaluate model performance
- Achieved over 90% percent accuracy in prediction with a Dataset of 1000+ entries
- Created data visualization reports to help interpret model predictions and features

Dynamic Object Detection System (YOLO v3, CNN, OpenCV)
- Developed a real-time object detection system using OpenCV, tested on the Caltech101 dataset.
- Detects and highlights objects in live video using webcam, supports image uploads for detecting new objects without extra training
- Trained initially on Caltech101 dataset. It can dynamically add images to its dataset after correct detection

Achievements & Certifications

Certificates
- IBM Foundational Gen AI (2025)
- NPTEL Computer Vision (2024)
- IBM Blockchain Developers (2025).

Achievements
- **Science Olympiad Foundation**, 2014–2016: Won Gold in International Science Olympaid& Silver Medals in Maths Olympiad and Computer Olympiad in Regionals
- **Inter DPS Music Competition 2013**, May 2013: Competed Among Multiple school teams. composed and performed at the event achieving 3rd place