Aman Kesarwani

AI/ML Engineer | Python Developer | Data Analyst | Computer Vision Engineer

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Education

Vellore Institute of Technology Aug 2021 - 2025

Bachelor of Technology in Computer Science (7.14 CGPA)

Technical Skills

Core Skills: Python, C++, SQL, Git, OOP.

Technologies: TensorFlow, Sklearn, Matplotlib, Numpy, Pandas, OpenCV, Keras, PyTorch, MongoDB, PostgreSQL.

Projects

Lung Cancer Detector

- Built a deep learning model using Convolutional Neural Networks (CNNs) to classify lung cancer from chest X-ray images.
- Applied data preprocessing and analytics techniques using NumPy, Pandas, OpenCV, TensorFlow, and Keras to enhance model training.
- Achieved 94% training accuracy and 96% testing accuracy on a dataset of 25,000 medical images.

Pong Game

- Built a real-time interactive Pong game using computer vision-based hand detection for paddle control.
- Utilized Python, OpenCV, Cvzone, and NumPy for image processing and real-time game mechanics.
- Implemented robust scorekeeping and dynamic ball speed increase features to enhance gameplay experience.

Certifications

- Artificial Intelligence and Machine Learning
- Cloud Digital Leader
- Bits and Bytes of Computer Networking

Co-Curricular

Coding:

- Completed Dr. G. Viswanathan's 100 Days of Code Challenge in C++, strengthening algorithmic thinking and programming fundamentals crucial for AI/ML problem-solving.
- Ranked 525th at the institutional level on GeeksforGeeks, maintaining a coding score of 281, demonstrating strong analytical and logical reasoning.

Hackathon:

- Achieved 6th position at the 'Green Innovators Hackathon', developing a predictive energy efficiency model leveraging machine learning concepts and urban data analytics.

Leadership / Extracurricular

- Led a team of 5 to build a data-driven project using Agile practices, optimizing delivery pipelines and improving sprint velocity by 15
- Strategically restructured resource allocation for ML pipelines, achieving a 25% reduction in project execution time.
- Encouraged collaborative learning by organizing knowledge-sharing sessions with peers and integrating faculty feedback for model improvements.