Aman Kesarwani

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

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Experience

AI Engineer Intern, Call 'N' Collect   Sep 2023 – Jan 2024

- Designed and trained machine learning models for classification and prediction tasks, improving model accuracy by iteratively fine-tuning hyperparameters using Python and Scikit-learn.
- Implemented and optimized deep learning algorithms tailored to business-specific use cases, leveraging TensorFlow and PyTorch to accelerate deployment readiness by 20%.
- Preprocessed and engineered features from large-scale datasets using Pandas and NumPy, reducing data noise and improving model training time efficiency.
- Collaborated cross-functionally to integrate AI models into production environments, ensuring smooth handoff and system compatibility with minimal post-deployment intervention.
- **Key Skills:** Python, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Model deployment, Deep learning, Data preprocessing

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.

Skills

Programming Languages: Python, C++, SQL.

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

Certifications

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

Education

Vellore Institute of Technology   Aug 2021 - 2025

Bachelor of Technology in Computer Science

Achievements Leadership

- **6th Place – Green Innovators Hackathon:** Developed a machine learning-based energy efficiency prediction model using urban analytics, outperforming 50+ teams in a sustainability-focused competition.
- **Team Lead** – Agile ML Project: Led a 5-member team to deliver a data-driven solution using Agile methodologies, increasing sprint velocity by 15% and improving delivery efficiency.
- **Optimization Strategist:** Restructured resource allocation across ML pipelines, reducing overall project execution time by 25% through strategic workflow enhancements.
- **Top 1% in GeeksforGeeks (Institutional Ranking):** Maintained a coding score of 281, securing a 525th rank institutionally, reflecting strong algorithmic and logical proficiency.
- **100 Days of Code (C++):** Completed Dr. G. Viswanathan's structured coding challenge, reinforcing foundational programming and problem-solving skills vital for AI/ML development.