

# 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

- Worked on developing AI solutions for analyzing customer interaction data, focusing on call transcript classification to identify key customer intents like complaints, queries, and follow-ups.
- Designed and trained supervised learning models using Scikit-learn and TensorFlow, experimenting with multiple classifiers to optimize accuracy and F1-score.
- Preprocessed noisy text data using Pandas and NumPy, which improved model convergence speed and reduced irrelevant features.
- Participated in weekly review calls with the product and customer support teams to align AI insights with real-world usage and refined models based on feedback.
- **Key Skills:** Python, Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Data Preprocessing, Text Classification, Model Evaluation.

## 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, 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:** Completed Dr. G. Viswanathan's structured coding challenge, reinforcing foundational programming and problem-solving skills.