

Aditya Singhal

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Experience

Board Infinity

May 2024 – August 2024

AI and ML Trainee

Phagwara, Punjab

- Optimized SQL procedures for high-volume data extraction, reducing query runtimes and enhancing data accuracy.
- Built dynamic Power BI dashboards using DAX and ETL pipelines to transform raw data into actionable insights.
- Automated complex Excel reports using advanced formulas, pivot tables, and conditional logic to support decision-making.
- Developed and evaluated ML models across regression, classification, and clustering using Python.
- Performed data preprocessing, tuned hyperparameters, and benchmarked model performance for production-readiness.

Projects

Wave Energy Converter | Machine Learning

January 2021

- Developed a predictive ML model for wave energy estimation.
- Engineered features and cleaned datasets for accuracy.
- Optimized model performance using GridSearchCV.
- Achieved an 18% RMSE reduction and 12% R² gain.

Object Tracking System | Computer Vision (Machine Learning)

February 2025

- Implemented real-time object tracking using centroid logic.
- Integrated YOLOv4 with OpenCV DNN for detection.
- Devised logic for object ID tracking and re-identification.
- Visualized live tracking with overlays on video feed.

AI Document Analyzer | Python

November 2024

- Built an AI-powered document Q&A system using GPT-4.
- Integrated OCR, embeddings, and semantic search for analysis.
- Automated document indexing and insight generation.
- Enabled metadata handling and theme-based summarization.

Certificates

- Competitive Programming (Cipher Schools)
- C++ Specialization (Coursera)
- Principles Of Generative AI (Infosys)
- Automation Associate Developer (ICT Academy)
- Introduction To IOT (NPTEL)

Technical Skills

Languages: Python, Java, C++, SQL

AI/ML Domains: Deep Learning, NLP, Computer Vision, Reinforcement Learning, Time Series Analysis, LLM's **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, Keras, NLTK, OpenCV, Pandas, NumPy, Matplotlib, Seaborn

Tools: Power BI, Git, Excel

Education

Lovely Professional University

August 2022 – July 2026

Bachelor Of Technology in Computer Science and Engineering

Phagwara, Punjab

Ryan International School

March 2021 - March 2022

Intermediate with Science

Ludhiana, Punjab

Leadership / Extracurricular

Lok Seva Society

May 2022 – Present

Volunteer

Ludhiana, Punjab

Led and supported social welfare initiatives including blood donation camps, ration distribution, and community outreach to assist underprivileged populations.