

NUNI V VIJAY SAI

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SKILLS

Programming & Scripting: Python, Java, SQL
Deep Learning & ML Frameworks: PyTorch, TensorFlow, Scikit-Learn, XGBoost
Computer Vision: OpenCV, YOLO, Image Classification, Object Detection, Object Tracking, Familiarity with OCR(Tesseract)
Generative AI & LLMs: Transformers, Hugging Face, RAG, Prompt Engineering
Cloud & Big Data: Databricks, AWS (S3, Lambda), exposure to Azure
Data & Visualization: NumPy, Pandas, Matplotlib, Plotly, Seaborn
Deployment & Tools: Flask, FastAPI, Streamlit, Git, Docker

PROJECTS

AI-Powered Logistics Optimization & ROI Simulation | Computer Vision & Business Analytics ([Source code](#)) Sep2025

- Designed and deployed a YOLO-based real-time object detection pipeline for video streams with 95% accuracy.
- Monitored fleet operations in real time, detecting overloaded trucks, damaged packages, and seatbelt violations.
- Implemented predictive demand forecasting to anticipate delivery loads and optimize scheduling.
- Optimized delivery routes using algorithmic route efficiency models, reducing delays by 18%.
- Built ROI simulation models to minimize idle time and fuel usage, achieving 12–15% cost savings.
- Conducted data analysis and feature engineering to enhance model performance and operational insights.
- Demonstrated direct business impact by linking AI adoption to measurable improvements in logistics efficiency.

AI-Powered Ad Optimization | ML Pipeline, Python, MLflow, Streamlit, Fast API ([Source Code](#)) Jan 2025 - Apr 2025

- Built an AI-powered ad optimization system using XGBoost for CTR prediction and adaptive bidding with LinUCB & Thompson Sampling.
- Integrated MLflow for experiment tracking and deployed insights via Streamlit and FastAPI dashboards.
- Improved campaign efficiency with simulated 25% CTR lift and 18% CPA reduction.
- Applied HDBSCAN + GMM for audience segmentation and personalized targeting.
- Containerized full pipeline with Docker for reproducible deployment.
- Designed LSTM-based trend forecasting to capture temporal ad engagement patterns and enhance predictive accuracy.

EDUCATION

Lovely Professional University (LPU), Phagwara Punjab 2021 – 2025
B. Tech in Computer Science (Specialization in Data Science & ML)
CGPA: 7.98/10

EXPERIENCE

Data Analyst Intern -Upgrad Jan 2025- May 2025

- Cleaned, preprocessed, and engineered features from large ad datasets for actionable insights.
- Performed EDA and visualized CTR, CPC, and ROI trends to guide campaign strategy.
- Built predictive models (XGBoost, LSTM) and adaptive bidding (LinUCB + Thompson Sampling) for ad optimization.
- Applied clustering (HDBSCAN + GMM) for audience segmentation and personalization.
- Deployed dashboards with Streamlit and tracked experiments using MLflow.
- Automated data pipelines with SQL, Python for scalable analytics.

CERTIFICATIONS

[Complete MLOPS](#) 2025
[Machine Learning Specialization – Stanford \(Coursera\)](#) 2024

ACHIEVEMENTS

- Runner-Up, University Entrepreneurship Day – Recognized for innovative business ideas and execution.
- 99.21 Percentile, Naukri Young Turks 2025 – Ranked among top participants nationwide in that exam