

AMAN PARASHER

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Summary

AI/ML Engineer with strong experience in designing and deploying machine learning models, building scalable pipelines, and integrating models into production using Python-based frameworks. Skilled in Scikit-learn, TensorFlow, and PyTorch with hands-on work in EDA, feature engineering, and model optimization. Familiar with REST APIs, Docker, Git, and cloud tools like AWS. Passionate about applying responsible AI techniques and delivering high-impact, real-world AI solutions in agile environments.

Education

Bachelor of Technology in Artificial Intelligence (AI)

CINTEL (Department of Computational Intelligence), SRM University KTR, Chennai, India

Sep. 2021 – May. 2025

CGPA 8.2/10

Technical Skills

Languages & Libraries: Python, SQL, Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch, OpenCV, Regex

ML & AI Techniques: Supervised/Unsupervised Learning, Classification, Regression, Clustering, CNNs, NLP Basics, Model Evaluation, Hyperparameter Tuning, Explainability (SHAP/LIME)

Data Engineering & MLOps: Feature Engineering, EDA, Pipeline Automation, Apache Airflow, Streamlit, Flask, REST APIs, Docker, Git, GitHub

Cloud & Tools: AWS (S3, Glue, Redshift), Snowflake, Jupyter Notebooks, DVC (basic), Hugging Face Transformers

Visualization Tools: Power BI, Tableau, Seaborn, Matplotlib

Experience

International Research Intern

National Chung Cheng University, Taiwan (Taiwan India Joint Research Centre on AI)

Aug 2024 – March 2025

Chiayi, Taiwan

- Engineered a real-time vehicle turn signal violation detection system using computer vision and ML techniques.
- Applied YOLO-based models for fast and accurate object detection on video frames.
- Integrated SegNet and CNN-LSTM architectures for precise light masking and temporal signal analysis, achieving an F1-score of 0.88.
- Developed a full pipeline to analyze 1,000+ vehicle videos, generating detailed violation reports with labeled images and timestamps to enhance road safety monitoring.

Projects

Document Theme QA Chatbot | OpenAI GPT-4, LangChain, OCR, FAISS, Streamlit, FastAPI

- Built a chatbot to query 75+ PDFs/scans with sentence-level citations using FAISS vector search.
- Extracted text (incl. OCR) and enabled theme-based summarization across 1000+ paragraphs via LangChain.
- Achieved 85% relevance in multi-doc answers during internal testing across 30+ queries.
- Deployed a user-friendly web app with Streamlit and FastAPI, processing queries in <2.5 sec on average.

Data Pipeline for Customer Churn Analysis | AWS services (S3, Glue, Redshift), Apache Airflow, Power BI

- Built an end-to-end churn prediction system combining ETL pipelines and ML model deployment.
- Used AWS Glue and Redshift for data ingestion and transformation; automated workflows via Airflow.
- Trained churn model using Scikit-learn; deployed with Flask API and containerized using Docker.
- Delivered business insights through Power BI dashboards connected to processed Redshift data.

Virtual Internships/Course Certifications

AWS Academy: Machine Learning Foundations

Forage Virtual Internship: TATA Data Visualisation: Empowering Business with Effective Insights

Forage Virtual Internship: KPMG Data Analytics Consulting Virtual Internship

One Fourth Labs: PadhAI- Foundations of Data Science

Coursera: Google course on Foundations: Data, Data Everywhere

Research Paper

Risk Assessment of high growth AI stocks using Time Series Analysis, 25th Annual Convention of Strategic Management Forum at Indian Institute of Management (IIM), Tiruchirappalli (Accepted).