

SAUGAT POUDEL

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Summary

Machine Learning Engineer & Data Scientist with hands-on experience deploying AI/ML solutions for startups. Skilled in generative AI, MLOps, and predictive modeling, with a proven ability to improve efficiency and scalability. Passionate about building production-ready AI systems using Python, TensorFlow, Lang Chain, and cloud technologies.

Education

Bachelor of Software Engineering (AI)

Torrens University Australia (May 2022 - May 2025)

Experience

AI/ML Engineer Internship | Xonects (Sydney) | Sep 2024 – Jan 2025

- **End-to-end development** of contract analysis pipeline, performing data extraction, cleaning and analysis, reducing document review time by 35% for 26 + clients.
- Experimentation on various machine learning, deep learning algorithms and finally optimized XGBoost with Hyperopt for operational forecasting, improving decision-making efficiency by **20%** during pre-launch trials.
- Deployed scalable MLOps pipelines using Docker, Kubernetes, and MLflow on AWS cutting deployment time by 30%.

ML Engineer Trainee | SMS Neotech (Remote) | Feb 2024 – Aug 2024

- Developed an AI-powered file organizer using PyQt and Gemini LLM, reducing document search time by 40%.
- Built a RAG-based legal chatbot (LangChain, ChromaDB) with 95% accuracy for retrieving page-specific references from legal documents.
- **Deployed scalable APIs** (FastAPI, Docker) to reduce latency by **25%**, ensuring real-time response for 500+ daily users.
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Data Science Virtual Internship | British Airways | 2024

- Analysed customer booking trends, boosting marketing campaign ROI by 18%.
- Developed ML models predicting customer purchasing behaviour, reducing churn by 12%.

Projects

Stock Market Analysis and Prediction With LSTM

- Created an LSTM model (TensorFlow/Keras) predicting market trends with 90% accuracy.
- Deployed a real-time forecasting tool for investment decision-making.

AI-Driven Credit Card Fraud Detection

- Built an ensemble model (XGBoost, Scikit-learn) detecting fraudulent transactions with 95% accuracy.
- Reduced false positives by 22% using anomaly detection techniques

RAG based chatbot for Insurance Company

- Developed a LangChain-based chatbot (Chroma DB, Falcon-7B) for semantic search across multiple legal documents.
- Achieved 90% retrieval precision, improving legal document accessibility.

Skills

Programming: Python, SQL, Bash

MLOps & DevOps: Docker, Kubernetes, MLflow, CI/CD (GitHub Actions), AWS

Databases: MySQL, MongoDB, SQLite

Frameworks & Libraries: Scikit-learn, PyTorch, TensorFlow, FastAPI, Flask, spaCy, Hugging Face

Tools: DVC, Jenkins, OpenCV, LangChain, Git, Linux

Machine Learning & Generative AI: NLP (BERT, GPT), Computer Vision (OpenCV), XGBoost

Soft Skill: Effective Communication, team collaboration, problem-solving, adaptability and continuous learning

Certification

Machine Learning Specialization – DeepLearning.AI

Data Science Masters – PW Skills

Intermediate SQL – Hacker Rank

MLOPS Masters – Euron

