SAUGAT POUDEL

Email: saugatp363@gmail.com
Phone Number: 0450112303
Portfolio: https://xaugatp.github.io/
GitHub: https://github.com/xaugatp
LinkedIn: https://www.linkedin.com/in/xaugat/

Summary

Resourceful Machine Learning Engineer & Data Scientist with hands-on experience in deploying production-ready AI/ML solutions for startups and enterprises. Passionate about generative AI, MLOps, and building scalable solutions using Python, TensorFlow, and cloud technologies. Proven track record in reducing operational bottlenecks and enhancing decision-making efficiency.

Education

Bachelor of Software Engineering (AI)
Torrens University Australia (May 2022 - May 2025)

Experience

AI/ML Engineer Internship| Xonects (Sydney) | Sep 2024 – Jan 2025
- Contributed to building end-to-end AI solutions by automating data extraction, feature engineering, and model training processes.
- Worked on model optimization and evaluation, achieving significant improvements in predictive performance and system efficiency.
- Participated in Agile development cycles, enhancing product development through data visualization and actionable insights.
- Gained hands-on exposure to modern deployment practices, including using Docker and cloud services for scalable solutions.

ML Engineer Trainee | SMS Neotech (Remote) | Feb 2024 – Aug 2024
- Assisted in designing and implementing data pipelines for efficient data ingestion, cleaning, and transformation.
- Developed and fine-tuned machine learning models to forecast key business metrics, demonstrating strong analytical and model-tuning skills.
- Collaborated with cross-functional teams to integrate data-driven insights into product features and enhancements.
- Supported deployment of models and applications using containerization and cloud platforms, gaining practical MLOps experience.
- Built and optimized predictive models to forecast customer purchasing behaviour, reducing churn by 12% and enhancing customer retention strategies.
- Implemented data-driven decision-making frameworks, enabling better customer.

Experience

Stock Market Analysis and Prediction With LSTM
- Developed a time-series forecasting model using LSTM (TensorFlow/Keras) to predict stock market trends with 90% accuracy.
- Designed and deployed a real-time investment forecasting tool, enabling data-driven decision-making for traders.

AI-Driven Credit Card Fraud Detection
- Engineered a fraud detection system using an ensemble of XGBoost and Scikit-learn, achieving a 95% detection accuracy.
- Implemented anomaly detection techniques, reducing false positives by 22%, improving transaction security.

RAG based chatbot for Insurance Company
- Built an AI-powered legal chatbot using LangChain, ChromaDB, and Falcon-7B, designed for semantic search across legal documents.
- Achieved 90% retrieval precision, enhancing accessibility to complex insurance policies and improving customer experience.
.

Skills

- Machine Learning & AI – Supervised & Unsupervised Learning, Deep Learning (CNN, RNN, Transformers), NLP (BERT, GPT).
- MLOps & Deployment – Docker, Kubernetes, MLflow, CI/CD (GitHub Actions), Model Versioning.
- Data Processing & Analytics – Data Cleaning, Feature Engineering, Statistical Analysis, Visualization (Pandas, NumPy, Seaborn).
- Big Data & Databases – SQL, NoSQL (MongoDB, Cassandra), Hadoop, Spark, Data Warehousing.
- Software Development & APIs – Python, Bash, FastAPI, Flask, RESTful Services.
- Cloud & DevOps – AWS, Google Cloud, Git, Linux, Automation.
- Problem-Solving & Collaboration – Analytical Thinking, Cross-functional Teamwork, AI-driven Product Development.

Certification
Machine Learning Specialization – DeepLearning.AI
Data Science Bootcamp – PW Skills
Intermediate SQL – Hacker Rank

References
Provided upon request.