John Lenehan

Senior AI/ML Developer at Softworks | Data Science & ML Engineering

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Profile

Senior AI/ML Developer and Data Scientist with a background in Engineering (M.Eng.), currently driving SaaS product development. 5+ years of experience architecting high-scale ML systems, from computer vision pipelines at Intel to Agentic AI and ML systems at Softworks. Specialist in engineering and deploying production-grade AI/ML models, balancing strict latency constraints with robust data security. Proven track record of translating ambiguous business goals into deployed models (Forecasts, Classifiers, Chatbots) to drive operational efficiency and strategic decision-making. Published writer for Towards Data Science.

Technical Skills

Languages: Python, SQL, Git, Bash
Gen AI: RAG, Vector DBs, LLM Agents
Visualisation: Power BI, Tableau, Matplotlib
Data Eng: Pandas, ETL, MS SQL, MySQL, Oracle
ML: TF/Keras, PyTorch, Scikit-learn, OpenCV, NLTK
Cloud/ML Ops: Azure ML, GCP, Docker, CI/CD

Employment History

Senior AI/ML Developer, Softworks — **Apr 2025 – Present**

- Engineering a secure hybrid LLM engine to route queries between RAG and SQL databases, while enforcing strict data isolation to minimise support ticket volume.
- Establishing scalable CI/CD workflows on GCP using Docker to automate model training, versioning, and deployment, designed to reduce time-to-production for new model iterations.
- Architected multivariate time series models to forecast availability against demand, leveraging proxies (e.g., sales, patient census) to drive data-led staffing.

Production Data Scientist, Intel — **Aug 2020 – Oct 2024**

- Reduced failure rates on critical equipment by 66%, via SQL-driven cohort analysis and A/B testing.
- Built, optimised, and managed CNN pipelines for automated anomaly detection on high-velocity production lines, improving defect recall by 7.5%.
- Engineered production forecasting systems for 3 major segments, leveraging time series modeling to stabilise predictions against volatile supply data and predict weekly output to within 5% of actuals.
- Implemented risk-scoring models for critical process junctions, reducing quality violations by 58% in a high-volume manufacturing environment.
- Led cross-functional team to drive new product certification 1 week ahead of customer commit dates.

Manufacturing Engineer, Medtronic — **Jan 2018 – Aug 2018**

- Implemented modular stent assembly stations, reducing maintenance time from 1 week to 2 hours.
- Designed new cleanroom tools to prevent stent damage, reducing stent defect rate by 75%.

Qualifications

Azure Data Scientist Associate, Microsoft, 2024 — **Certified**
Applied Data Science, MIT, 2024 — **Distinction**
Specialist Data Analytics, UCD, 2023 — **Distinction**
Master of Engineering, NUIG, 2020 — **1st Honours**

Hobbies and Interests

- Writer for Towards Data Science
- Persistent hiker
- Hobbyist chess player
- Frequent 5k and 8k series runner
- Amateur painter
- Avid reader