

JEAN NAUDE

jnaude60512@gmail.com | <https://linkedin.com/in/jean-naude/> | <https://github.com/twigglits>

SUMMARY

Senior Machine Learning Engineer with 4 years of experience delivering production-level ML models for a major retailer. Former Co-founder of a non-profit that developed open-source epidemiology simulation software used by the World Health Organization.

My strength lies in rapidly deploying observable, impactful models that drive key business decisions in their organizations. I enjoy taking on difficult problems and developing solutions at a rapid pace whilst maintaining measurable and observable improvement in automation, optimization and model accuracy. I enjoy working with hardworking people who want to get results fast, can communicate effectively, and are open to feedback so that decisions can be made and improvements can be implemented.

EXPERIENCE

Machine Learning Engineer — Spatialedge

Jun 2021 – Present

- Served as Technical Lead Engineer on two enterprise data applications providing optimized results in retail and financial sectors
 - Mentored junior engineers and provided technical guidance while engineering the technical foundation for both projects
 - Productionized and contributed to 8 machine learning models including Lead Time Forecasting, Demand Forecasting, and Interbranch Transfers Optimization in the Retail sector. And ATM replenishment forecasting and optimization in the Financial Sector
 - Contributed development to various credit scoring models in the Financial sector, and mentored 5 junior engineers on software engineering best practices and approaches
 - Developed Workforce Planning Optimization and Cash Replenishment Forecasting enterprise-grade data applications
 - Implemented CI/CD pipelines using GitLab and GCP with Terraform for infrastructure automation
-

SKILLS

Languages & Frameworks: Python, C++, SQL, JavaScript, TypeScript, Ruby, Bash, C

ML & Data Science: PyTorch, Scikit-Learn, TensorFlow, Time Series Forecasting, Machine Learning, Computer Vision

Infrastructure & DevOps: GCP, Azure, Docker, Kubernetes, Terraform, CI/CD, Airflow, Dagster, Helm, Git, Linux

Databases & Systems: PostgreSQL, BigQuery, Redis, CUDA, GraphQL, Crow API

EDUCATION

ESIEE PARIS — Master's of Science in Computer Science

2019-2021

Pearson Institute — Bachelor's of Science in Information Technology

2015-2018

PROJECTS

VISS (Viral Infection Simulation Subsystem)

github.com/twigglits/viss

- Engineered first open-source Viral Infection Simulation Subsystem providing valuable insights to the World Health Organization
- Implemented backend using Redis DB, C++, and Crow API with CUDA acceleration for high-performance epidemiological modeling
- Developed modular frontend using React and TypeScript with CSS Tailwind for interactive simulation visualization

Spatialedge Analytics DF Auditor

pypi.org/project/spatialedge-analytics-dfauditor

- Created DataFrame auditing and validation tools for machine learning pipeline quality assurance
 - Published Python package to PyPI for broader community use in data science workflows
-

CERTIFICATIONS

Python for Data Science and Machine Learning Bootcamp — 2025

<https://www.udemy.com/certificate/UC-1fcc8e47-b153-45b2-b43b-7c117e1fd2db/>

Time Series Analysis, Forecasting and Machine Learning — 2025

<https://www.udemy.com/certificate/UC-a567a1fa-c83a-43d9-82ff-df5cdacb4d5e/>

Data Science and Machine Learning Bootcamp with R — 2019

<https://www.udemy.com/certificate/UC-65MDQ02B/>

React - The Complete Guide 2025 (incl. Next.js, Redux) — 2025

<https://www.udemy.com/certificate/UC-acdec4cd-ae82-4216-9cd3-212d2e0a63ee/>

Calculus 1 — 2019

<https://www.udemy.com/certificate/UC-37U23IL1/>