Sam Reeves Susikar

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Aspiring machine learning engineer and full stack developer | Building seamless, efficient and optimised solutions

EDUCATION

New Horizon College of Engineering   Bangalore, India
Bachelor of Engineering in Artificial Intelligence and Machine Learning   October 2022 – present
CGPA: 8.51

- Gained comprehensive understanding in subjects such as Machine Learning, Deep Learning, Agentic AI orchestration, RAG Pipelines, Large Language Models, Computer Vision, Data manipulation, Full Stack development, Database Management Systems and Statistical and discrete math.

WORK EXPERIENCE

Data Science Intern | python, GeoPandas, Pandas, sklearn, PostgreSQL, plotly   Bangalore, India
GeoIQ Lenskart   July 2025 – Present
- Analyzed population redistribution by mapping census demographics against building height and density data to estimate spatial population distribution.
- Built revenue forecasting and geospatial regression and clustering models to identify untapped markets across India for multiple enterprise clients.
- Engineered and maintained model features using large-scale open-source geospatial and socio-economic datasets to ensure accuracy and freshness.
- Developed data visualizations and geo-dashboards to communicate insights to business and client teams.

Business Intelligence Intern | python, pandas, scikit-learn, plotly   Remote
Mosler   February 2025 – May 2025
- Re-architected unstructured hotel access logs into structured datasets for business intelligence and analysis.
- Analyzed access-control and booking data to uncover revenue leakage driven by unauthorized room usage, anomalous access patterns, and operational gaps.
- Built a scalable pipeline to consolidate heterogeneous logs across multiple schemas into a unified analytical dataset.
- Developed an interactive, time-based dashboard to visualize revenue leakage trends and detect anomalies.

ML Intern | python, pandas, scikit-learn, PyPDF2, pytesseract, seaborn   Seattle, USA
MDX.ai   August 2024 – December 2024
- Cleaned, normalized, and transformed large-scale Medical document datasets (PDFs, OCR outputs) using Python (Pandas) to support training of NLP model.
- Automated data validation and preprocessing pipelines, reducing manual data QA time by over 60% and improving consistency across multi-format inputs (CSV, JSON, XML)
- Collaborated with ML engineers to convert annotated data into model-ready formats.

RELEVANT PROJECT EXPERIENCE

Student Portal | NextJS, AWS, NextAuth, MongoDB, PostgreSQL, Judge0   Bangalore, India
Freelance Project   August 2024 – May 2025

- Spearheaded the development of a SaaS application for my university in which students can take both coding and MCQ assessments to preparation for tests, interviews, mock exams and academic evaluation.
- Developed and deployed a deep learning algorithm that uses Webcam footage to ensure there is no form of malpractice.
- Integrated multiple features to enhance the student experience in college such as a mail service, a college calendar, course content upload, class discussions and a DSA roadmap.
- Designed and developed the database architecture along with authentication that hosts roughly 3000 users.

PUBLICATIONS

- Privacy-Preserving and Efficient Border Surveillance System using   DOI: 10.1109/I-SMAC61858.2024.10714893
  Advanced Deep Learning and Cryptographic Techniques
- Machine Learning Optimisation: Adaptive Hessian–free optimisation   DOI: 10.17148/IJARCCE.2024.13653
- A comprehensive analysis of natural language processing   DOI: 10.17148/IJARCCE.2024.13617

SKILLS

TECHNICAL SKILLS:
Python for machine learning, stats and data analysis: pandas, numpy,torch, tensorflow, sklearn, yolov5, matplotlib, seaborn
Data structures and algorithms: Python and C++
Full stack development: NextJS, React, ReactNative, Flutter, PostgreSQL, MongoDB, Django, EC2, TailwindCSS,

SOFT SKILLS: Leadership, communication skills, problem solving, collaboration and teamwork, decision making