Sam Reeves Susikar

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Aspiring full stack developer and machine learning engineer | 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, Data manipulation, Full Stack development, Database Management Systems and Statistical and discrete math.
- Completed a certificate course on Full stack web development course and on docker and kubernetes
- Played as part of the College Football squad.

WORK EXPERIENCE

ML Intern | python, pandas, scikit-learn, PyPDF2, pytesseract, seaborn   Seattle, USA
MDX.ai   May 2025 – July 2025

- 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.

Web Developer | HTML, CSS, JavaScript   Newcastle, England
North East United in Christ Fellowship   May 2024 – July 2024

- Designed a website for the NUICF organisation (www.nuicf.com) using vanilla javascript.
- Developed a seamless front end design and built a responsive solution for both mobile and desktop clients using CSS.
- Created CSS classes and used javascript's IntersectionObserver library to trigger smooth CSS animations on scroll and hover

RELEVANT PROJECT EXPERIENCE

Student Portal | NextJS, EC2, NextAuth, MongoDB, PostgreSQL, Judge0,   Bangalore, India
Freelance Project   August 2024 – June 2025

- Developed a portal for my university in which students can take both coding and MCQ assessments to preparation for tests.
- 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.

Border surveillance system | YOLOv4-Tiny   Bangalore, India
Group Project   October 2024 – December 2024

- Developed and optimized an image segmentation module using YOLOv4-Tiny, tailored for real-time object detection.
- Published a scopus indexed research paper on the developed Deep learning system in IEEE Xplore.

SongRecognizer | Python, Librosa, sounddevice, scipy   Bangalore, India
Mini Project   June 2024 – August 2024

- Developed Python script using the librosa library to replicate Roy van Rijn's song recognition algorithm.
- Extracted frequencies using a short term fourier transformation and matched fingerprints with songs in a local database.

PUBLICATIONS

- Privacy-Preserving and Efficient Border Surveillance System using Advanced Deep Learning and Cryptographic Techniques — DOI: 10.1109/I-SMAC61858.2024.10714893
- Machine Learning Optimisation: Adaptive Hessian–free optimisation — DOI: 10.17148/IJARCCE.2024.13653
- HarmoneyNet: blockchain technology for sustainability and scalability — DOI: 10.17148/IJARCCE.2024.13653

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