

Karl Neil Sequeira

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SUMMARY

AI & Machine Learning student and Chancellor's Gold Medalist with end-to-end experience developing production ML pipelines, computer vision models and enterprise workflow automations. Registered-design holder and IIT Madras T4E research presenter skilled in LLM wrappers (LangChain/Ollama), REST API integration and scalable MLOps deployment to solve real-world business challenges.

EDUCATION

BSc.Hons AI & Machine Learning | Atlas SkillTech University, Mumbai | 2022–2026

GPA: 8.29 / 10.0 | Honors: Chancellor's Gold Medalist

- Core Coursework: Neural Networks, Machine Learning Algorithms, Big Data (Hadoop/Spark), Probability & Statistics, Data Structures, SQL, Linear Algebra, Cloud Data Engineering, Optimisation.
- Academic Research: Micro Mouse Robot Research and Algorithm Development (May 2024)

TECHNICAL SKILLS

- Languages & Querying: Python, R, SQL
- ML, DL & Vision: Machine Learning, Deep Learning, Computer Vision, OpenCV, LangChain, Ollama, MLOps
- Data, Cloud & Databases: Data Analysis & Visualization, Big Data (Hadoop/Spark), MySQL, NoSQL, Supabase, Azure
- Tools & Analytics: Tableau, Excel, REST APIs, Git

WORK EXPERIENCE

AI Ops Engineer | AHA Smart Homes | Mumbai, India | Mar 2026 – Present

- Developing an AI-driven Proposal Understanding System by annotating Electrical Plans (EP) and training computer vision models to parse floor plans for automated proposal generation.
- Integrated Periscope API to automate customer messaging, follow-ups, and support ticket synchronization, eliminating manual tasks and improving response workflows.
- Engineered an Additional Items Approval Workflow for the Project Management Tool (PMT), digitizing customer approvals, sales order updates, and audit tracking.

Generative AI Intern (Part-Time) | Unreal Dimension | Mumbai, India | Feb 2025 - Aug 2025

- Engineered custom, high-performance wrappers for Large Language Models (LLMs) using LangChain and Ollama to power intelligent application features.
- Executed full development lifecycles for production-ready ML models, optimizing core product performance.
- Streamlined end-to-end MLOps pipelines from model experimentation and tracking through to operational deployment.

Machine Learning Intern | EdTech Society | Mumbai, India | Jan 2025 – Apr 2025

- Designed and trained a Convolutional Neural Network (CNN) to classify pneumonia from chest X-rays as a baseline medical image analysis tool.
- Built an emotion recognition system using a Convolutional Neural Network (CNN) on face images to classify seven emotional states for potential health-monitoring applications.

Machine Learning Intern | Digirise Infolabs | Mumbai, India | Oct 2023 - Nov 2023

- Executed exploratory data analysis (EDA) and predictive modeling across key datasets (Sales Prediction, Credit Card Fraud Detection, Iris Classification) to drive forecast accuracy.

HONORS & RESEARCH

- Chancellor's Gold Medalist | Atlas SkillTech University (2026) : Awarded top institutional honor for exemplary academic performance, research, innovation, and campus leadership.
- Co-Inventor, Registered Design No. 479196-001 | Smart Attendance Device : Co-designed an intelligent and automated attendance device (registered 5 Nov 2025).
- Research Presenter | IIT Madras Technology for Education (T4E) Conference (2025) : Presented original research on Image Classification techniques.

LEADERSHIP, CERTIFICATIONS & LANGUAGES

- Leadership & Events: Class Representative (2024–2026) | Coordinator TEDx & Illenium Fest (2024–2025) | Munzil MUN Honorable Mention (2024)
- Certifications: Google Developer Groups Code Vipassana (Apr 2023) | Ethics in Engineering Practice (NPTEL, Oct 2022)
- Languages: English (Native), Hindi (Intermediate)

References available upon request