

Elviin Thomas Eldho

AI/ML Engineer & Systems Architect

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SUMMARY

AI/ML Engineer and Systems Architect specializing in end-to-end machine learning solutions, distributed event-driven data pipelines, and Kubernetes microservice orchestration. Proven expertise in building graph-based intelligence algorithms, real-time predictive models, and agentic workflows. Passionate about designing robust architectures that seamlessly scale complex AI models from concept to production.

SKILLS

- **Machine Learning & AI:** Time-Series Forecasting (Times FM, Chronos, ARIMA), Anomaly Detection, Graph Analytics & Clustering, Agentic Workflows, LLM Integrations
 - **System Architecture:** Distributed Microservices, Event-Driven Architecture, High Availability Deployment, Multi-tenant DB Architecture
 - **MLOps & Data Engineering:** Apache Kafka, Apache Airflow, Kedro, MLflow, Docker, Kubernetes
 - **Backend & Databases:** Python, Node.js, PostgreSQL, MySQL, MongoDB, Supabase, REST APIs
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EXPERIENCE

AI/ML Engineer (AIOps) | *VIAVI Solutions* | Chennai, India | Aug 2025 – Present

- **AI Algorithm Design:** Contributed to a distributed graph-based alarm correlation system utilizing network topology detection and clustering algorithms to transform millions of raw, Kafka-streamed alarms into insights.
- **Predictive Modeling:** Engineered core AI/ML components for real-time KPI anomaly detection and high-accuracy time-series forecasting.
- **MLOps Architecture:** Built automated, reproducible ML pipelines using Kedro and Apache Airflow; implemented centralized model lifecycle tracking using MLflow.
- **System Design:** Containerized ML microservices with Docker and architected orchestration deployments on Kubernetes to guarantee 99.9%+ high availability.

Full-Stack Developer & Systems Architect (Freelance) | *Remote* | Jan 2024 – Aug 2025

- **System Design:** Architected production-grade multi-regional web and mobile backends. Designed complete system lifecycles, database schemas (PostgreSQL, MongoDB), and robust RESTful APIs.
- **Scalable Pipelines:** Delivered custom software solutions focusing on secure database transactions, fast data retrieval speeds, and highly maintainable, modular system codebases.

Software R&D Intern | *Genrobotic Innovations Pvt. Ltd.* | India | Jul 2024

- **Robotics ML:** Conducted applied research on the Universal Manipulation Interface (UMI) framework, building proofs-of-concept to train robotic systems on manipulation tasks.
 - **Sensor Integration:** Engineered data capture pipelines by integrating heterogeneous sensor modalities (IMUs, dual webcams) for robot training.
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EDUCATION

B.Tech. in Computer Science and Engineering (Honors in Machine Learning)

Rajagiri School of Engineering & Technology (RSET) | 2021 – 2025 | **CGPA: 9.63/10**

PROJECTS

Magi Holidays CMS & Multi-Site Platform | *CMS, Multi-Site Web Development*

Architected a centralized CMS and 7+ localized websites, enabling unified content management and control across multiple domains.

Social Vision Operations System | *Django, MySQL, Python, HTML, CSS, JS*

Developed a comprehensive full stack web application to streamline and run daily operations for charitable organizations.

NASA Space Apps 2024 (Exoplanet Data Engine) | *Django, React, Vite, Tailwind*

Developed a high-performance data visualization engine for NASA researchers to visualize how the skies appear on different exoplanets.

Evide - Transport Ecosystem & Mobile App | *React Native, JavaScript, Google Maps API*

Architected a comprehensive urban mobility solution for Kochi, integrating real-time tracking and route optimization for public transit.

USB Driver & Kernel Exploration | *C, Batchfile, System Architecture*

Conducted system-level exploration of USB driver development and kernel-user communication protocols.

CERTIFICATIONS

- **Claude code 101** – *Anthropic*, Sep 2026
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- **AI Fluency for Builders** – *Anthropic*, Sep 2026
- **Hands-On AI: Building AI Agents with Model Context Protocol (MCP) and Agent2Agent (A2A)** – *LinkedIn*, Sep 2025
- **Agentic AI for Developers: Concepts and Application for Enterprises** – *LinkedIn*, Sep 2025
- **Agentic AI Fundamentals: Architectures, Frameworks, and Applications** – *LinkedIn*, Sep 2025
- **Advanced Learning Algorithms** – *DeepLearning.AI*, Dec 2024
- **Supervised Machine Learning: Regression and Classification** – *DeepLearning.AI, Stanford University*, Nov 2024
- **Deep Learning** – *NPTEL (IIT Ropar)*, Nov 2024
- **Introduction to Machine Learning** – *NPTEL*, Jul 2024
- **Programming in HTML5 with Modern JavaScript** – *Udemy*, Aug 2021