

AMITH LAL

Kerala, India

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Education

APJ Abdul Kalam Technological University

Bachelor of Technology in Computer Science

Aug. 2019 – Jun. 2023

CGPA: 9.34

Holy Cross HSS, Cherpunkal

XII, Kerala State

Aug. 2017 – May 2019

98.25%

Experience

AI and Machine Learning Engineer

Jul 2024 – Present

Linux AS, Kochi

- Built and deployed end-to-end Retrieval-Augmented Generation (RAG) systems powered by LLMs.
- Generated embeddings from domain-specific content and stored them in vector databases like FAISS and ChromaDB.
- Developed Django REST APIs to expose intelligent search and LLM-backed responses.
- Hosted RAG systems locally and tested them with real-time user queries across structured and unstructured data.
- Created middleware to integrate SAP systems with Albert Invent for seamless data exchange.
- Designed and hosted a machine learning-based Predictive Color Mixing Platform for formulation optimization.

Cloud Engineering Intern

Feb 2024 – May 2024

Trainso Training Solutions, Bengaluru

- Worked on cloud infrastructure operations with a strong focus on AWS environments.
- Gained hands-on experience with IAM, EC2, S3, and basic security configurations.
- Assisted in deploying containerized applications and managing access control policies.

Certifications

- **Machine Learning Specialization by Andrew Ng** – Coursera (2024)
Successfully completed a rigorous 3-course specialization focused on supervised and unsupervised learning, deep learning fundamentals, model evaluation techniques, and best practices for building real-world ML systems.
- **IBM Applied AI Professional Certificate** – Coursera (2023)
Gained practical experience building AI-powered applications using Python, Watson APIs, and cloud-based deployment tools. Covered key concepts in natural language processing (NLP), computer vision, and intelligent agents.
- **Python for Data Science, AI & Development** – IBM via Coursera (2023)
Developed hands-on skills in data handling, exploratory analysis, and machine learning using Python, Pandas, NumPy, Matplotlib, and Jupyter Notebooks.
- **30 Days of Google Cloud Program** – Google (2021)
Successfully completed both Cloud Engineering and Data Science & Machine Learning tracks. Gained exposure to GCP services.
- **AWS Certified Solutions Architect Associate (SAA-C03)** – Udemy (2023)
Completed comprehensive training aligned with AWS certification blueprint. Gained understanding of cloud architecture design, IAM, EC2, S3, Load Balancers, and fault-tolerant solutions.
- **Research Publication – NCASCD 2023**
Presented a pioneering paper on a Personalizable Super-App Framework at the National Conference on Advances in Smart Computing and Data Sciences, exploring modular app development and user-driven customization in mobile ecosystems.

Personal Projects

Agentic Workflows with n8n & OpenAI | *n8n, OpenAI*

Jun 2025

- Built autonomous LLM-powered workflows using n8n for summarization, API chaining, and decision-making.

Super-App for No-Code Mini Apps | *Flutter, Firebase*

Jun. 2023

- Developed a super-app with Play Store-like sharing; built admin web panel and Android app.
- Enabled non-coders to create and deploy modular apps; led full development cycle.

Jobfi: Aptitude-Based Job Portal | *PHP, JavaScript*

Mar. 2022

- Created portal with online assessments and mock test sharing for job-seekers and recruiters.

Technical Skills

- **Languages:** Python, SQL, HTML/CSS , Java
- **Machine Learning & AI:** Scikit-learn, OpenAI API, LangChain, Retrieval-Augmented Generation (RAG), FAISS, LLMs
- **Automation & Orchestration:** n8n, Webhooks, Agentic Workflows, REST APIs
- **Web & Backend Development:** Django, Django REST Framework, Firebase
- **Cloud Platforms:** AWS (EC2, S3, IAM)
- **SAP Technologies:** ABAP, CDS Views, OData, FPM, Fiori, UI5
- **Databases & Storage:** Firestore, MySQL, SQLite, FAISS , ChromaDB (vector Store)
- **Version Control & Tools:** Git, GitHub, Postman, Figma, Jupyter, Adobe After Effects
- **Core CS Skills:** Data Structures and Algorithms, Object-Oriented Programming (OOP), API Integration