

Anand Harikrishnan

+91-9656681806 | anandharikrishnan14@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

Model Engineering College <i>Bachelor of Technology in Computer Science</i>	Kochi November 2020 - June 2024
Chavara Public School <i>Higher Secondary Education</i>	Pala June 2018 - June 2020

EXPERIENCE

Software Engineer <i>Abilytics Inc</i>	June 2024 – Present Kochi
<ul style="list-style-type: none">Architected and maintained the backend of an AI-powered Incident Management System built on a FastAPI-based microservices architecture, integrating PostgreSQL, Redis, Qdrant, and Loki for data management, with Celery for background task processing and Google ADK agents for intelligent incident automation.Worked on integrating GitHub, Jira, Slack, Azure DevOps, and Microsoft Teams using MCP and Rest APIs to import multi-platform incidents and enable resolution directly within communication platforms.Obtained the AWS Certified Cloud Practitioner certification during tenure, improving proficiency in system design and cloud deployment.Handled the deployment of in-house products on AWS and implementation of CI/CD pipelines to automate deployment processes and reduce release time by 40%.Migrated Inhabitir's monolithic Flask application deployed on EC2 to a FastAPI-based microservices architecture on AWS ECS, and published an IEEE paper based on the work.	

PROJECTS

[SentinelAI](#) | Python, Flask, React, Docker, CNN, AWS EC2

- Built a full-stack video anomaly detection and narration platform to automatically identify and generate text descriptions of anomalous events from uploaded videos.
- Created a custom autoencoder model and LSTM using Convolutional Neural Networks (CNN) and performed hyperparameter tuning to optimize model performance.
- Conducted comparative analysis between Autoencoder (unsupervised) and LSTM (supervised) models to determine optimal approach for video anomaly detection use case.

[Log Advisor](#) | Python, Shell Scripting, MongoDB, PostgreSQL, GPT, Gemini

- Developed an intelligent log analysis system utilizing supervised and unsupervised machine learning models to detect anomalies across HDFS and Linux system logs, with automated narration explaining detected anomalies.
- Designed and implemented an ML pipeline combining Random Forest classifier, log clustering algorithms, and autoencoder-based models to classify and narrate anomalous log events accurately.

[AssignEase](#) | Flutter, Node.js, Express.js, MongoDB, Google Play Store

- Engineered an AI-powered academic support app connecting students with subject matter experts through a transparent auction-based bidding system for cost-effective assignment help.
- Implemented a LightGBM regression model to recommend optimal bids by analyzing expertise, task complexity, and completion time, ensuring quality and affordability.
- Deployed app on Google Play Store.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: FastAPI, Flask, Django, Google ADK

Developer Tools: Git, Docker, AWS, Bitbucket Pipeline, Alloy, Loki, Grafana, Prometheus, Qdrant

Libraries: React, Pandas, NumPy, Tensorflow, Celery, LiteLLM