Dinesh Kumar G M

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Summary

AI and Data Science undergraduate with strong experience in machine learning, NLP, computer vision, and LLM-based systems. Built end-to-end AI products including RAG systems and AI-powered HR platforms using modern cloud and MLOps practices. Adept at translating business problems into scalable, data-driven AI solutions.

Experience

Rampex Technologies   Nov 2024 – Dec 2024
MLOps Intern
– Integrated CI/CD pipelines for ML model serving and automation.
– Managed AWS cloud environments to optimize inference and deployment.

Education

Sri Shakthi Institute of Engineering and Technology   2022 – Present
– B.Tech in Artificial Intelligence and Data Science
– CGPA: 8.38

Technical Skills & Interests

– **Programming Languages:** Python, GO, Scala
– **Libraries:** FAISS, Tensorflow, NumPy, Pandas.
– **Tools and Technology:** Flask, FastAPI, GitHub, AWS Sagemaker, AWS Lambda, AWS EKS, Kubernetes, VS Code, Intellij Idea
– **Cloud / DB:** AWS, MySQL , MongoDB
– **Areas of Interest:** GenAI Architect, AI/ML Engineer, SDE, Data Scientist
– **Soft Skills:** Problem Solving, Self-learning, Adaptability, Presentation

Projects

RAG System Using AWS Bedrock and Lambda
Developed Built a citation-aware RAG system using AWS Bedrock and a serverless AWS architecture. Implemented document chunking with AWS Lambda, semantic retrieval using FAISS, and metadata-driven source tracing from Amazon S3
Tech Stack: Python, AWS Bedrock,Lambda,S3, Amazon Titan Embeddings.

RecruitAI – AI-Powered HR Platform
Built an AI-powered HR Copilot using a vibe-coding approach to rapidly design and ship features. Automated resume screening and job-description matching using NLP and embedding-based similarity. Enabled smart candidate scoring and faster, data-driven shortlisting through an interactive dashboard.
Tech Stack: Next.js, Antigravity, Gemini (LLM), Stitch (Web Design), Python, Git

Sufrace Crack dectection using CNN
Developed a CNN-based image classification model to detect structural surface cracks and enhanced performance through data augmentation and hyperparameter tuning. Evaluated model accuracy using validation metrics and confusion matrix.
Tech Stack: Python, TensorFlow, NumPy, Pandas, Computer Vision

Fire and Smoke Detection
Created a real-time fire and smoke detection system using YOLOv5 for industrial safety monitoring and integrated the model into a Flask web application for live video inference. Optimized dataset preprocessing and augmentation for higher precision and recall.
Tech Stack: Python, YOLOv5, OpenCV, Flask, HTML/CSS, Deep Learning

Leadership & Co-Curricular Activities

Vice President & Tech Lead – EXPYNOS (AI & DS Department Association)
– Organized technical workshops, hackathons, expos and paper presentation events enhancing student engagement.
– Mentored juniors and guided project teams on AI/ML model-building and deployment.
– Coordinated inter-department competitions promoting innovation culture.