AMAL JOGY

Aspiring Software Engineer

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EXPERIENCE

SDE-ML Intern, R.R.C.A.T (Govt. Of India)
Dec 2022 - May 2023, Indore
- Developed **India's first** AI based anomaly detection for magnet systems at Indus-2 particle accelerator
- Enhanced fault **diagnosis speed by 9X** while delivering **95% accuracy** on the same by leveraging deep autoencoder model
- Met with organizational demands by constantly interacting with stakeholders while following **scrum agile** framework

Tech Stack:- Python, Tensorflow, Pandas, Numpy, MatplotLib, PySpark

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App Developer Intern, Applore Technologies
June 2021 - September 2021, Delhi
- Designed sport's app in agile team, meeting dynamic demands, and achieving a **30-day early delivery**
- Enhanced app capabilities, **slimming size by 22%** with BLOC. Utilized custom MongoDB & FireBase for UX and data management.
- **Restructured the existing architecture** by expanding the end user focused features while **streamlining the overall UX**.
- **Increased the test coverage** of existing and new functionalities

Tech stack:- Flutter, FireBase, REST API, FireBase, MongoDB, Confluence, JIRA

EDUCATION

| **B.Tech in CSE** | 2019 - 2023 |
| SRM Institute of Science & Technology | CGPA - 9.26 |

LEADERSHIP EXPERIENCE

Gen-Y, Team Lead
2022-2023
- **Led 10+ interdisciplinary students** across 6 domains, boosting Gen-Y Website and App outreach by 50%, reducing roll-out time by 5 weeks.
- **Strengthened student-faculty ties**, established new domains in Flutter and AR/VR, facilitating **post-COVID transition** and industry-linked projects.
- Mentored Hackathon program, tripling wins, and conducted **technical workshop for 200+ students**

Certifications

| **Python for Data Science** | IIT Madras |
| **Machine Learning for Python** | IBM |

PROJECTS

Mirai
Utilized deep learning for **stock price prediction**, integrating Yahoo Finance and NSE APIs. Engineered CNN-LSTM model & optimizing performance with Optuna. **Informed decisions through extensive EDA** scientific plots. Used TensorFlow, Matplotlib, Plotly, Optuna, Python..

Merlin
Developed COVID-19 data analysis tool for 80+ countries, **enhancing cluster convergence 60X faster with 1/100th power**. Custom neural network & LSTM led to 72% accuracy. EDA-driven 9 interactive graphs. Used Python, Scikit-Learn, Seaborn, FAST API for REST, XML, JSON.

GCP Challenge
Won Google Cloud Challenge by setting up Compute Engine VM and Kubernetes cluster with **autoscaling**. **Orchestrated CI/CD** via Jenkins, Docker, deploying to Kubernetes.

HOMER
Established a **home cluster** across 2 laptops, for seamless data analysis. Integrated deep learning with TensorFlow's multi-worker mirrored strategy, operating through high speed local network utilizing a **Network Switch and custom LAN policies**. Used: PySpark, TensorFlow, Linux

SKILLS

Languages: C++, Python, Java, C, PostgreSQL
Frontend: HTML, CSS, JavaScript, Flutter, React
Database: FireBase, MongoDB
Backend & Cloud: AWS S3, EC2, VM, Lambdas, Step Function, Terraform, Athena, GraphQL, GCP

ACHIEVEMENTS

- **AWS Certified Cloud Practitioner**
- **Bajaj Finserv HackRx3.0 Winner**
- **SIH Internals Software Winner**
- **Gen-Y LockathonNaN Hackathon Winner**