Suresh Moligi

Lead Data Scientist

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"Self-motivated and results-driven Data Scientist known for swift adaptation to emerging technologies. Demonstrates proficiency in grasping new concepts efficiently. Thrives in dynamic environments, leveraging analytical skills to achieve tangible outcomes."

Skills

- **Languages:** Python, Golang, R
- **Databases:** MySQL, Cassandra, RDS
- **Data Science:** Machine Learning, Deep Learning, Artificial Intelligence, Predictive Analytics, Statistical Modelling, Natural Language Processing
- **Generative AI:** LLMs Fine-Tuning, RAG, Langchain, LlamaIndex Huggingface(Llama2/3, Mistral/Mixtral, Phi, Gemma, Unsloth)
- **Analytics:** Tableau, Power BI, Dash(Plotly)
- **Cloud:** AWS, GCP
- **Framework:** Tensorflow, Pytoch, Keras
- **MlOps:** Kubeflow, MLFlow
- **VectorDB:** ChromaDB, Faiss
- **DevOps:** Kubernetes, Docker, Git, Jenkins, Microservices

Work history

Jul 2023 - Current

Lead Data Scientist

HPE(Acquisition), Hyderabad

- Spearheaded cross-functional team of data analysts and scientists.
- Collaborated with Product teams to analyze product usage, yielding insights that shaped product roadmap decisions.
- Analyzed extensive datasets to uncover trends in customer behaviors.

- Strengthened product's machine learning capabilities by implementing new AI-driven features.

Dec 2018 - Jun 2023

Lead Data Scientist

OpsRamp, Hyderabad

- Collects data from diverse sources including web APIs and internal databases encoded in SQL, Cassandra.
- Analyzed large datasets to identify trends and patterns in customer behaviors.
- Worked closely with Product and Engineer piers to provide ML solutions.
- Lead 4 member Data Science team in delivery of machine learning projects in Production.
- Excellent communication skill & ability to comprehend and relate to clients and company personnel.

Jul 2015 - Dec 2018

Data Analyst

IBM, Bangalore

- Analyzed raw data to derive actionable insights and recommendations.
- Assisted in statistical analysis, inference-making, and result presentation.
- Identified business optimization opportunities aligned with objectives.
- Compiled and synthesized business intelligence into reports and presentations.
- Provided actionable recommendations based on data trends.

Education

Oct 2018

PGP: Postgraduate Program: Big Data Analytics And Optim

International School Of Engineering (INSOFE) - Hyderabad

Apr 2015

Bachelor of Technology: Computer Science

VNR Vignana Jyothi Institute Of Engineering & Tech - Hyderabad

Projects

PROJECT NAME: Alert Correlation Algorithm

- Objective: Correlate duplicate, redundant, and disparate alerts received by IT Admins for IT resources issues.
- Developed a Deep Learning model (LSTM) to understand alert sequences and identify correlations.
- Deployment: Implemented the model in the Production Environment using a machine-learning pipeline.

PROJECT NAME: Log Anomaly Detection

- Developed a log anomaly detection system within the product to pinpoint potential root causes.
- Utilized machine learning algorithms to analyze log data and identify anomalous patterns.

- Implemented in-product alerts to notify relevant teams of potential issues, aiding in rapid troubleshooting and resolution.
- Collaborated with cross-functional teams to ensure effective integration and utilization of the anomaly detection system.
- Contributed to improved system stability and performance by proactively identifying and addressing issues

PROJECT NAME: Root Cause Summarization

- Developed a root cause summarization system using Large Language Models (LLMs) to distill complex issues into concise summaries.
- Leveraged advanced natural language processing techniques to analyze and understand root causes from diverse sources of data.
- Integrated the system into the product workflow to automatically generate actionable insights for efficient troubleshooting and resolution.
- Collaborated with cross-functional teams to ensure seamless integration and adoption of the summarization system.

PROJECT NAME: MLOps Pipelines

Developed and implemented two MLOps pipelines:

- Utilized Python packaging frameworks for one pipeline, ensuring reproducibility and scalability.
- Built a Kubernetes-based pipeline using Kubeflow for optimized deployment and monitoring.
- Collaborated cross-functionally to integrate machine learning models into production environments.
- Conducted performance evaluations and optimizations for enhanced pipeline efficiency.
- Provided documentation and training on MLOps best practices to team members.

PROJECT NAME: Time Series Change Detection

- Objective: Notify IT Personnel about sudden changes in key metrics of IT resources to prevent downtime of business applications.
- Developed a time series forecasting model updated at 4-hour intervals to predict key metrics behavior.
- Implemented error-based alert system: if the error between actual and forecasted values exceeds a threshold, triggers notification for IT Personnel.

PROJECT NAME: Data Analysis Projects

- Engaged stakeholders across organizational levels, from CEO to entry-level developers, on multiple data analysis initiatives.
- Evaluated and forecasted revenue across various pricing models, including the existing one, communicating findings to CFO, VPs, Finance, and Product teams.
- Leveraged quantitative data to understand customer behavior, demographics, and lifecycle, providing insights crucial for company decisions.
- Developed visually compelling dashboards using Python, Tableau, and AWS Quicksight, catering to different teams including Product managers for roadmap definition.