Karthik Gowda Ramakrishna

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PROFESSIONAL EXPERIENCE:

Capgemini Information Technology

Sr Analyst/software engineer July 2022– Aug 2023

- Introduced a weekly training system, accelerating on-boarding and competency development of new team members in 5 weeks, outperforming company average of 3 months
- Developed data models using SVM, K-Nearest Neighbors, and Naïve Bayes for business forecasting on large datasets
- Improved system efficiency by 20% through application of EDA, statistical methods, and data visualization techniques on complex Advanced Driver Assistance Systems (ADAS) datasets
- Boosted release efficiency by 40% by developing a Python-based reporting tool to automate SIL testing processes
- Reduced false-positive collision warnings by 30% by tweaking ADAS algorithms using predictive modeling and optimization techniques, improving autonomous driving system safety
- Enhanced computational efficiency and managed large datasets by utilizing Big Data technologies like Apache Spark, contributing to a 30% improvement in data pipeline performance.

Analyst/software engineer July 2022– Aug 2022

- Achieved 50% reduction in data processing time by developing a Python desktop application to extract data from XML files and generate Excel files
- Notification Service: An all-encompassing notification system built in NodeJS, fully integrated, accounting for a 100% enhancement in User Integration.

MIDTEK July 2020– July 2021

Systems Engineer | Full stack web development

- Spearheaded design and development of a user-friendly & responsive IoT application for street light management, contributing to 30% of the total development.
- Developed and deployed 4 ML web apps (profiling/predictor systems) using Django/Flask with a 93% satisfaction rating.

INDEPENDENT PROJECTS:

Finance dashboard with Machine learning implementation GitHub:Finacizilla

- developed a full-stack website with a machine learning model for financial trend forecasting, leading to a 30% improvement in predictive accuracy

Bangalore property price predictor GitHub:BHPP

- Achieved 87% accuracy with linear regression (vs Lasso, DTRegressor) for predicting house prices in Bengaluru. The model is integrated into an app (Bootstrap templates), enhancing data-driven decision-making for buyers and sellers.

Data Analysis & Engineering on Tokyo Olympics 2021 data using Azure GitHub: Data Pipeline

- This is an end-to-end Azure Data Processing (Pipeline) & analytics project. to do raw data extraction, transformation, loading the data in SQL and dashboard creation. Using Azure Data Factory -Azure Data Lake Gen 2 -Azure Databricks - Azure Synapse Analytics - SQL - Power BI

Skills:

Languages/Databases: Python, JavaScript, SQL, MySQL, HTML/CSS, SQLServer, NoSQL, MongoDB,
Libraries: Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Plotly, BeautifulSoup, PySpark, Seaborn, PyTorch
Frameworks: React Js, Spring Boot, Bootstrap, Robot Framework, NodeJS, Flask, Django.
Tools: Tableau, Power BI, Airflow, Jenkins, Excel, Git, Splunk, Jira

EDUCATION:

Master of Science in Information Systems | Current GPA 3.8/4.0

Northeastern University, Boston, MA Expected Graduation: May 2025

Relevant Coursework: Advance Data science, Application Engineer & Dev, Web Design and User Experience Engineering