Murali Krishna Mididoddi

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Summary

Data Scientist with expertise in Big Data Engineering, Data Analytics, and ML. Proficient in designing and optimizing scalable data pipelines, deploying ML models, and implementing real-time fraud detection systems. Strong in SQL, Python, Exploratory Data Analysis, AWS, and data engineering, with a track record of delivering cost-effective, high-performance solutions. Passionate about transforming raw data into actionable insights.

Education

University of Central Missouri   **Jan 2023 - Dec 2024**
MS, Big Data Analytics and IT (GPA: 3.77/4.0)
- **Coursework:** Project Management, Data resource management, Business Intelligence and Analytics, Big data solutions for business, Information Visualization for Big Data Analytics, MLOps

KITS   **Jul 2018 - Jul 2022**
Bachelors, Electronics and Communication Engineering (GPA: 3.5/4.0)

Work Experience

Adroit IT Solutions | *Junior Data Scientist*   **Jun 2021 - Apr 2022**
- Built predictive models using ensemble techniques like XGBoost and Gradient Boosting Trees, and deployed deep learning models using Keras Neural Networks.
- Performed advanced feature engineering on datasets with over 200+ predictors, using techniques like sequential feature selection and Gaussian Mixture Modeling.
- Created outlier detection visualizations using boxplots and K-NN distance metrics implemented in Pandas and NumPy for anomaly analysis.
- Utilized R and Python for EDA, A/B testing, ANOVA, and hypothesis testing to validate model accuracy and business impact.
- Designed and implemented custom machine learning frameworks using Python, R, and JavaScript, enabling modular and reusable analytics workflows.

Indian Railways | *Data Intern*   **May 2021 - Jun 2021**
- Detected and corrected 23% data inconsistencies using SQL, strengthening the reliability of freight reports for high-impact decisions.
- Improved route efficiency by 30% by applying Dijkstra's algorithm in R for optimizing freight logistics.
- Automated BI reporting and regression pipelines using Python, saving $20K+ annually in manual operations.
- Designed 20+ interactive dashboards for analyzing baggage load and transit performance, reducing analysis time by 70% and enabling data-driven decision-making for operational improvements.
- Developed multidimensional and tabular SSAS cubes, and created SSRS reports using MDX queries for generating business-critical KPI dashboards and performance metrics.

Adroit IT Solutions | *Data Analyst Intern*   **May 2019 - Apr 2021**
- Analyzed and transformed large datasets from multiple sources using Python and SQL, performing data cleaning, formatting, and validation to prepare for analysis.
- Developed complex SQL queries with joins, subqueries, and correlated subqueries to extract business insights and support decision-making processes.
- Created interactive visualizations using Tableau by connecting to sources like MS Excel, PostgreSQL, and flat files, enabling clear communication of trends and metrics.
- Performed ETL operations, including data extraction, transformation, and loading, with a focus on database optimization and performance in a PostgreSQL environment.
- Utilized pivot tables, data models, and Python pandas to identify trends, outliers, and data patterns, enhancing the quality of reports and dashboards

Skills and Technologies

- **Programming & Web Technologies**: Proficient in Python, C++, SAS, R, SQL, HTML5, CSS3, JSON, XML, and AJAX.
- **Machine Learning**: Experienced with Neural Networks, Support Vector Machines, Random Forest, K-Means, PCA, Logistic Regression.
- **BI & Reporting Tools**: Skilled in Tableau, Power BI, SSRS, Crystal Reports, Cognos, Business Intelligence Development Studio (BIDS).
- **Databases & Data Modeling**: Worked with Cassandra, HBase, MongoDB, MariaDB, MS SQL Server, Star/Snowflake schema
- **Version Control**: GitHub, Git, Bitbucket
- **Development Methodologies & Tools**: Hands-on with Agile/Scrum, UML, Waterfall, TensorFlow, Pandas, NumPy, Microsoft Visual Studio

Certifications

- **AWS Certified Machine Learning– Specialty** : Expertise in deploying scalable ML solutions on AWS
- **Microsoft Power BI Analyst Associate** : Proficiency in building interactive dashboards and BI solutions
- **AWS Certified Cloud Practitioner**: Strong foundation in cloud computing principles and architecture.