VAMSHI KRISHNA KATIKA

katikavamshikrishna@gmail.com | +1 (571) 502 7208 | Linkedin | GitHub

EDUCATION

George Mason University   **Fairfax,Virginia**
Masters of Science in Data Analytics Engineering, GPA: 3.70   *Graduation Date: May 2024*

Institute of Aeronautical Engineering   **Hyderabad,Telangana**
Bachelor of technology in Computer Science and Engineering, GPA: 3.70   *Graduation Date: Jun 2022*

SKILLS & INTERESTS

Languages: Python, R Programming, HTML & CSS,Unix,React,Java Script.

Cloud: Microsoft Azure.

Database: MySQL, PL/SQL, Oracle.

Algorithms: Machine Learning , Data Structures and Algorithms, NLP (Natural Language Processing),AI (Artificial Intelligence).

Visualization: Microsoft Power BI, Tableau Desktop.

Tools and technologies: Hadoop, Informatica, Databricks, Snowflake, Kafka,Docker, TensorFlow/PyTorch.

Other tools: Github,Jira,MS Excel, MS Power Point, MS Word.

EXPERIENCE

U.S. Fish and Wildlife Service   **Falls Church,Virginia**
Data engineering   *Jan 2024 - May 2024*
- Streamlined the management of migratory bird population and harvest data, enhancing data processing speed by 30%.
- Developed a working prototype for data integration and **visualization**, reducing data integration time by 40%.
- Constructed a digital dashboard to display **time-series** data, improving decision-making for wildlife management and conservation efforts by 20%.
- Created and optimized calculated columns, measures, and quick measures using **DAX**, which resulted in more accurate **KPI** analysis and a 25% increase in data processing efficiency.
- Designed **interactive reports and dashboards**, boosting user engagement by 35%.

Value Cyber Tech PVT.LTD   **Hyderabad,India**
Data Engineering   *May 2021 - Jun 2022*
- Transformed and cleaned datasets using Power Query in **Power BI**, enhancing data accuracy and usability by 30%, and utilized various **Power BI filters** to efficiently manage and analyze large datasets, improving data retrieval efficiency.
- Created and optimized calculated columns, measures, and quick measures using **DAX**, resulting in 20% faster **data processing**, and designed complex **Power BI dashboards** with custom visuals, increasing user engagement by 25%.
- Executed and optimized queries, implementing performance tuning techniques to reduce report load time by 40%, and developed and maintained **Power BI reports** and dashboards, meeting 100% of business requirements and enhancing decision-making.
- Collaborated with development teams, product managers, and business analysts to align reports with business needs, reducing requirement gaps by 15%, and utilized **SQL** for data queries and performance optimization, decreasing query response time by 35%.
- Implemented paginated reports and wrote stored procedures, improving report generation speed by 20%, and analyzed and interpreted data to provide actionable insights, driving strategic initiatives and improving stakeholder satisfaction by 18%.

PROJECTS

George Mason University   **Fairfax,Virginia**
POWER BI DESKTOP FOR BUSINESS INTELLIGENCE ANALYST   *Oct 2023 - Dec 2023*
- Orchestrated automated **ETL** workflows using **Power Query**, reducing data processing time by 25%.
- Engineered a comprehensive data model, boosting data integrity and consistency by 30%.
- Conceived complex calculated columns and measures using **DAX**, enhancing **KPI** analysis accuracy by 20%.
- Devised interactive reports and dashboards, increasing user engagement by 40%.

George Mason University   **Fairfax,Virginia**
U.S.TELECOMMUNICATIONS DATA USING MACHINE LEARNING   *Jan 2023 - Mar 2023*
- Developed **logistic regression, k-nearest neighbors**, and **decision tree** models to forecast customer churn, achieving an **ROC AUC** of **0.88,** and improved customer retention strategies.
- Conducted exploratory data analysis using **R**, identifying key churn drivers and providing actionable insights that informed business strategies and potentially reduced churn by 15%.
- Designed feature engineering pipelines with the recipes package in **R**, enhancing data quality and normalization, leading to a 20% improvement in model accuracy.