AKANKSHA SAHITYA BHUPATHIRAJU

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Summary

Data-focused professional with 3 years of experience in backend development and analytics, skilled in Python, SQL, Java, and R. Proven ability to work across the software development lifecycle while also supporting data-driven decision-making through data cleaning, structured reporting, and building cleaner dashboards. Experienced in creating reliable, insight-rich solutions using tools like Tableau and MongoDB, and comfortable working with cross-functional teams to improve workflows and identify performance gaps. Currently pursuing an MS in Data Science with a focus on data management, statistical analysis, and practical business applications.

Skills

- **Technical Skills**: Data Analysis, Statistical Analysis, MongoDB, Tableau, Data Visualization, Database Management, Database Design, Data Mining, Machine learning, Artificial Intelligence, Microsoft Excel(Pivot Tables, VLookUPS, Macros, Hypothesis testing), Python, SQL, R Programming, Java, HTML, CSS, Spring Boot, Apache Kafka, MATLAB.

Experience

Infosys | *Digital Specialist Engineer*   **Feb 2022 - Dec 2023**
- Developed and maintained 15+ backend services for airline domain applications using Java and Spring Boot, enhancing system performance and reducing ticket processing latency by 30%.
- Led a cloud migration project from legacy TIBCO BE/BW to microservices, enhancing deployment flexibility and cutting maintenance efforts by 40%
- Automated ticket and seat allocation using event-driven architecture and cloud deployment, streamlining booking operations and reducing latency by 30%.
- Collaborated with cross-functional teams to troubleshoot production issues, leveraging SQL and monitoring tools to ensure system reliability and data integrity.

Cognizant | Programmer Analyst Trainee   **Jul 2021 - Feb2022**
- Conducted data wrangling and SQL-based analytics to support key business decisions by generating actionable insights from structured datasets.
- Designed and deployed 20+ interactive Tableau dashboards, improving KPI visibility and team performance tracking by 25%
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Education

University of Massachusetts Dartmouth   **Jan 2024 - Dec 2025**
Master of Science, Data Science (GPA: 3.96)

SRM University   **Aug 2017- May 2021**
Bachelors, Electronics and Communication Engineering (GPA: 3.93)

Projects

Engineering Placements Analysis Through Data Visualization
- Analyzed historical student placement data using D3.js, HTML, and CSS to create interactive dashboards highlighting patterns across departments and years, enabling visual insights into employment trends and skill-based placement outcomes.
- Improved administrative decision-making by 20%, enabling academic departments to identify underperforming streams and align training programs with recruiter expectations

Predicting Employee Attrition A comparative Analysis of Machine Learning Models:
- Developed classification models to predict employee attrition, achieving highest AUC of 0.81 with XGBoost. Recommended strategies for HR teams such as improving work-life balance and job satisfaction to mitigate attrition risk.
- Conducted EDA and feature engineering in R to uncover key drivers like Overtime and Environment Satisfaction, and visualized insights using ggplot2.

Certified Courses

- Data Analytics and Visualization Job Simulation by Accenture North America.
- Tableau 2024 A-Z: Hands-On Tableau Training for Data Science by Udemy.
- Tableau Prep for Data Analysis and Business Intelligence by Udemy.
- Data Analysis with Python by Freecodecamp
- Data Analytics Job Simulation by Deloitte

Achievements

- **Insta Award** | Received Insta Award from Infosys on successfully delivering the airlines components to production in less time.
- **Publications** | Published paper in IEEE website on "Size Analysis of Brain Tumor from MRI images using MATLAB" in 2021. Presented paper in 12th ICCNT conference conducted by IIT Bombay.
- **Merit Certificate** | Secured merit certificate and certificate of excellence in TechQui-A National Level Technical E Quiz series Season1 organized by SVPP college, Puttur in May,2020.