

# Vamsi Sattenapalli

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[LinkedIn](#) | [AWS Certified Data Engineer - Associate](#) | [HackerRank SQL Advanced](#)



## SKILLS

**Languages:** Java, Python, SQL (SQL Server, PostgreSQL, Oracle), NoSQL (MongoDB), DAX, COBOL, JCL

**Developer Tools/Frameworks:** GitHub, Jira, Microsoft Power BI, SSIS, Azure Databricks, Apache Kafka, Apache Airflow, PySpark, NumPy, Pandas, Scikit Learn

**Cloud Platforms:** AWS, Microsoft Azure

## EXPERIENCE

### Senior Systems Engineer

Infosys

India | Aug 2020 - May 2022

- Improved a banking application's performance by 20% through creating and optimizing SQL queries.
- Reduced report generation time by 50% and streamlined data analysis processes through the optimization of database queries and data mining processes.
- Leveraged SQL Server data to create insightful reports in Power BI and Excel, driving key business decisions and enhancing operational efficiency.
- Collaborated with business users to identify and prioritize business needs, resulting in the creation of a new dashboard that provided real-time insights into key performance indicators and increased team productivity.
- Reduced bugs by 30% by promoting code quality thorough reviews and delivering meaningful input to peers.
- Propelled task completion by an impressive 10% through the transformation of the SDLC completion timeline. Implemented Agile methodologies and Sprint frameworks, which streamlined deliverables and secured swift business approvals.

### Systems Engineer

TCS

India | Sep 2019 - Nov 2019

- Served over 5 million daily customers by maintaining mainframe applications for Bank of America, using COBOL, JCL, DB2, and other mainframe tools.
- Reduced server downtime by 20% and enhanced reliability, resulting in significant cost savings through proactive maintenance and optimization strategies.
- Enhanced and integrated components into existing core banking systems using COBOL and DB2 leading to a 60% boost of transaction processing speed.

## PROJECTS

### Data Migration | Microsoft Azure, MS SQLServer, CI/CD, ETL

- Successfully orchestrated the migration of all databases from on-premises MS SQLServer to Azure Data Lake Gen2 utilizing the Azure platform.
- Transferred 15 databases, encompassing a total of 2TB data volume, ensuring a smooth transition with minimal disruption.
- Designed and deployed efficient data pipelines to automate the extraction, transformation, and loading (ETL) processes, streamlining data migration workflows.

### Disease Prediction | PySpark, Big Data Processing, Machine Learning

- Designed a PySpark ML classification model to predict hepatitis likelihood with 96% accuracy through feature engineering.
- Conducted exploratory analysis to identify key factors for hepatitis prediction. Optimized model performance by reducing false positives by 20% compared to other models.
- Demonstrated end-to-end development of scalable machine learning solutions using PySpark's distributed computing and big data processing.

### Dynamic Ticket Pricing | Machine Learning, Data Analysis, Azure ML

- Proposed a machine learning model using Azure ML to set ticket prices for basketball games, using Neural Networks and Decision Trees for model comparisons.
- Employed feature engineering process, resulting in a 25% efficiency increase and improved other statistical metrics.
- Azure ML capabilities were implemented to get a scalable and accessible solution, showcasing expertise in cloud-based machine learning platforms.

### Impact of COVID-19 on Global Tourism | Tableau, MS Excel, Data Analysis, ETL, Project Management

- Developed impactful visualizations and interactive dashboards to analyze and tell a nuanced story of the pandemic's impact on global tourism using 8 different questions.
- Highlighted key metrics such as a 50% decrease in international arrivals, a 70% drop in hotel occupancy, and a 90% decline in revenue for the industry.
- Applied comprehensive data cleansing and organization procedures using MS Excel, enhancing data quality by 50%.

## EDUCATION

### Master of Science

University of South Florida

Aug 2022 - May 2024

Business Analytics and Information Systems | GPA – 3.9

### Bachelor of Technology

RVR&JC College of Engineering

Aug 2015 - May 2019

Electrical and Electronics Engineering | GPA – 8.99