Sai Sriya Vemuri

 | ⬤ | ✈ sriya.vemuri@duke.edu | My Website

EDUCATION

Fuqua School of Business - Duke University, Durham, USA Jul 2025 - May 2026
Master of Quantitative Management: Business Analytics

SSN College of Engineering, Tamil Nadu, India Jul 2019 - May 2023
Bachelors of Technology in Information Technology

EXPERIENCE

Citibank Chennai, India
Jul 2023 - Jun 2025

Software Engineer (C10) Aug 2024 – Jun 2025
- Improved reporting query performance by 40% by optimizing MySQL indexing strategy
- Reduced failed releases by 20% by standardizing Jenkins CI/CD for data pipeline deployments
- Built reusable Python transform and validation modules for 10+ ETL pipelines, reducing maintenance by 25%
- Improved data reliability across releases by 35% by adding unit tests and golden dataset checks, reducing regressions
- Reduced ad hoc data requests by 20% by delivering stable datasets and documentation, enabling self serve analytics
- Delivered backlog items to production in Agile Scrum with the team, using Jira and daily standups

Software Engineer (C09) Jul 2023 – Aug 2024
- Implemented end-to-end ISO 20022 CAMT processing, increasing coverage to 95%, standardizing data across services
- Built a new Excel download feature enabling 50k+ row exports with p95 under 10 seconds via streaming and pagination
- Created an interactive transaction flow graph that improved visibility into entity-level movement patterns
- Reduced data latency to under 10 minutes by operationalizing Hadoop and Spark outputs in production microservices
- Reduced discrepancies by 20% by collaborating with stakeholders to define and standardize liquidity event KPIs
- Increased event throughput by 20% by tuning Java multithreading, with no added compute spend

Citibank May 2022 - Jul 2022
Intern Chennai, India
- Reduced manual effort and processing time by 75% by building an internal tool to automate Amazon S3 object uploads and retrieval
- Engineered Java, Spring Boot, and AngularJS components for JSON comparison and CSV diff generation, enhancing data validation processes and supporting 15 internal users in data analysis workflows

SKILLS

Languages: Python, SQL, R Programming, C++, Java. Javascript, HTML, CSS
Databases: MySQL, MongoDB
Analytical Tools: Tableau, Microsoft Excel(Advanced)
Technology: Git, Kubernetes, Docker, Jenkkins, VS Code, AWS, Jupyter Notebook
Data Engineering Techniques: ETL Pipelines, Data Warehousing, Data Quality Assurance
Software Development Practices: CI/CD Pipelines, Microservices Architecture, Unit Testing
Analytical Methods: Hypothesis Testing, A/B Testing, Statistical Modeling

PROJECTS

Lead Scoring & Funnel Analytics ⬤
$SpringBoot, MySQL, ML$
- Designed dashboard-ready REST API over 84k Salesforce leads to compute funnel conversion, velocity KPIs, and segmentation
- Built rule-based and ML lead scoring to predict PQL, launch, and first shipment outcomes within 30/60/90-day windows

Steam Metadata to Genres: Cross-Validated ML Pipeline ⬤
$ML, FeatureEngineering$
- Predicted one or more Steam game genres from metadata to support tagging and marketing decisions
- Engineered features (price, platforms, languages) and compared one-vs-rest logistic regression, random forest, and SVC using 10-fold cross-validation and threshold tuning