

# Surya Venkatraman

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## EDUCATION

<b>Georgia Institute of Technology</b> <i>Master of Science in Analytics</i>	August 2024 – May 2026 Atlanta, Georgia
<b>University of Virginia</b> <i>Bachelor of Arts in Applied Statistics</i>	August 2020 – May 2024 Charlottesville, Virginia

## EXPERIENCE

<b>Data Governance Analyst</b> <i>Navy Federal Credit Union</i>	May 2025 – Present Vienna, Virginia
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- Driving development of an Azure SharePoint-integrated enterprise chat bot to streamline knowledge retrieval for 1K+ employees and reduce document search time by 52%
- Led the division adoption of Power BI Augmented Analytics to enable natural language querying on customer data, cutting key metric retrieval time from days to seconds for 3+ business units
- Developed 3+ modular SQL scripts for data quality rule parsing and metadata capturing, allowing parameterized workflow reuse for recurring use cases and saving 30+ analyst hours per monthly cycle

<b>Data Scientist</b> <i>P3Fusion</i>	June 2023 – May 2025 Richmond, Virginia
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- Co-developed RLHF AI models to automate email triaging systems on AWS SageMaker, decreasing SLA processing time by 40% for 1500+ client enterprise users
- Built 6 client-specific AWS QuickSight dashboards to visualize insights from unstructured data, driving data-informed decisions and improving client KPIs
- Designed a serverless NLP pipeline using AWS Lambda to extract insights from medical insurance documents, reducing insurance approval time by 33%
- Collaborated with internal and client teams to integrate diverse data sources into ML pipelines, also delivering a self-service dashboard to improve ingestion monitoring for client analysts

## PROJECTS

<b>Predictive Risk Analysis on COMPAS Recidivism</b>	August 2024 – Present
<ul style="list-style-type: none"><li>• Built end-to-end ML pipelines (XGBoost, logistic regression, etc.) on 10K+ COMPAS recidivism cases, achieving 86% prediction accuracy</li><li>• Conducted bias/fairness audits (demographic parity, equalized odds) and documented mitigation strategies for ethical deployment in judicial risk scoring</li></ul>	

<b>Impact of Campaign Contributions on Congress Voting Patterns</b>	January 2024 – May 2024
<ul style="list-style-type: none"><li>• Modeled influence of sector-specific donations on congressional votes using logistic regression and decision trees</li><li>• Aggregated large-scaled, disparate datasets from demographic, voting, and Fortune 500 contributions data to assess the impact of sector-specific donations on voting patterns using inferential statistical analysis</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, SQL, R  
**ML/AI:** Scikit-learn, PySpark, PyTorch, TensorFlow  
**Cloud and Data:** AWS, Databricks, Azure, Apache Spark, PowerBI

## CERTIFICATIONS

<b>AWS Certified Solutions Architect - Associate</b> <i>Amazon Web Services</i>	July 2023
<b>AWS Certified Cloud Practitioner</b> <i>Amazon Web Services</i>	February 2023