Surya Venkatraman

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EDUCATION

Georgia Institute of Technology — August 2024 - May 2026
Master of Science in Analytics — *Atlanta, Georgia*

University of Virginia — August 2020 - May 2024
Bachelor of Arts in Applied Statistics — *Charlottesville, Virginia*

EXPERIENCE

Data Governance Analyst — August 2025 - Present
Navy Federal Credit Union (Contracted by Checks & Balances) — *Vienna, Virginia*
- Led the refresh of MRM and SMD model audit documentation, streamlining audit readiness and strengthening enterprise alignment with NCUA and Federal Reserve SR 11-7 standards
- Led the division adoption of Power BI Augmented Analytics to enable semantic natural language querying on member data, cutting key metric retrieval time from days to seconds for 3+ SMD business divisions
- Developed 3+ modular SQL scripts for data quality rule parsing and metadata capturing, allowing parameterized workflow reuse for recurring use cases and saving 30+ data quality analyst hours per monthly cycle
- Converted from **2025 Summer Associate** to **Full-Time Role** in August 2025

Data Scientist (Artificial Intelligence) — June 2023 - May 2025
P3Fusion — *Richmond, Virginia*
- Co-developed RLHF AI reward 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 average request handle time
- Designed a serverless NLP pipeline using AWS Lambda to extract key fields 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

Macro Stress Test Simulator for Credit Card Loss — May 2025 - Present
- Developed macro forecasting pipelines to predict U.S. credit-card delinquency and charge-off rates with lagged drivers (Federal Funds, unemployment, inflation, etc.) at a 76% month-over-month directional accuracy
- Created a scenario stress-testing module to project loss curves and quantify sensitivity to macro shocks

Predictive Risk Analysis on COMPAS Recidivism — August 2024 - Present
- Built end-to-end ML pipelines (XGBoost, logistic regression, etc.) on 10K+ COMPAS recidivism cases, achieving 86% prediction accuracy
- Conducted bias/fairness audits (demographic parity, equalized odds) and documented mitigation strategies for ethical deployment in judicial risk scoring

Impact of Campaign Contributions on Congress Voting Patterns — January 2024 - May 2024
- Modeled influence of sector-specific donations on congressional votes using logistic regression and decision trees
- Aggregated large-scaled, disparate datasets (1.3M+ donation records) from demographic, voting, and Fortune 500 contributions data to assess the impact of sector-specific donations on voting patterns using inferential statistics

TECHNICAL SKILLS

Languages: Python, SQL, R

ML/AI: Scikit-learn, PySpark, PyTorch, TensorFlow

Cloud and Data: AWS, Databricks, Azure, Apache Spark, PowerBI

PROFESSIONAL CERTIFICATIONS

AWS Certified Solutions Architect - Associate — Feb 2026
Amazon Web Services