

# MARTIN WEISS

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EDUCATION	<b>Virginia Tech</b> <b>M.S. Computer Engineering</b> <b>B.S. Computer Engineering</b> <b>Major: Machine Learning</b>	Blacksburg, Virginia 2024 - 2025 2020 - 2024 GPA: 3.45		
PROFESSIONAL EXPERIENCE	<b>Thermo Fisher Scientific - Clinical Next Generation Sequencing</b> <b>Senior Data Science Intern</b> Working on various machine learning projects for next generation sequencing Fine-tuned FLAN-T5 LLM to convert sequencer error messages into actionable key:value pairs  <b>Thermo Fisher Scientific - Specialty Diagnostics</b> <b>Data Science Intern</b> Led a data-driven targeting initiative for a diagnostic test within the ImmunoDiagnostics Division Developed a comprehensive targeting strategy that will increase test utilization and growth Leveraged machine learning models to identify key test utilization drivers among physician segments Engineered intricate targeting algorithms that align with business objectives for demand generation Utilized geospatial mapping and algorithmic routing to optimize sales reps' reach Delivered enhanced targets based on physician test utilization and account growth opportunity Devised precision targeting plan, endorsed by corporate international leadership, launched in Q1 2024  <b>Municipal Securities Rulemaking Board</b> <b>Data Science Intern</b> Developed machine learning solutions to analyze and predict bond report filing times Worked with enterprise-scale data sets to find unique and actionable insights with Python Created compelling data visualizations and graphs that promoted explainability and interpretability	Guilford, CT May 2024 – August 2024  Kalamazoo, MI May 2023 – August 2023  Washington, D.C. May 2022 – July 2022		
TECHNICAL SKILLS	Python R	AWS Git	SQL Jupyter	Tableau Microsoft Office Suite
PERSONAL PROJECTS	<b>AWS Based Spotify Stats</b> Developed AWS-based solution for showcasing my top tracks and artists from Spotify Automated logging of my recent streaming data using the Spotify API to S3 every 30 minutes Utilized daily Lambda functions triggered by EventBridge to update top tracks and artists Stored top tracks and artists in optimized DynamoDB tables for fast retrieval on my website Implemented visual indicators such as green arrows to visually highlight track and artist changes  <b>Spotify Machine Learning Song Recommendation Engine</b> Python data science project utilizing Pandas to clean and tabulate nearly 500,000 streams Counted total streams for each unique song, totaling nearly 5,000 unique songs Used the Spotify API to retrieve song data for my songs and 55,000 others for training and testing Developed a decision tree algorithm that suggested new songs based on my top streamed songs	February 2024  October 2022		