

# 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> Fine-tuned Google's FLAN-T5 LLM to process sequencing error messages into dictionaries Developed models using PyTorch to predict 2D histograms using sequencing run metadata Achieved >99% accuracy in identifying the 0.25% of sequencing runs that were aberrant Integrated trained models into the R&D tool suite using Flask, Docker, and Ubuntu Delivered robust ML solutions used by multiple R&D teams for enhanced troubleshooting	Guilford, CT May 2024 – August 2024		
	<b>Thermo Fisher Scientific - Immunodiagnosics</b> <b>Data Science Intern</b> Led a data-driven targeting initiative for a diagnostic test within the ImmunoDiagnostics Division 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 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	Kalamazoo, MI May 2023 – August 2023		
	<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	Washington, D.C. May 2022 – July 2022		
TECHNICAL SKILLS	Python R	AWS Git	Docker Jupyter	SQL 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	February 2024		
	<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	October 2022		