Mekias Kebede

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EDUCATION

B.S. in Informatics (Data Science Focus) - University of Washington, Seattle - Spring 2027
Relevant Coursework: Data Structures and Algorithms, Databases and Data Modeling Systems, Statistics, Entrepreneurship, Product Management

B.S. in Physics (Applied/Engineering Focus) - University of Washington, Seattle - Spring 2027
Relevant Coursework: Mathematical and Experimental Physics, Advanced Calculus, Linear Algebra

TECHNICAL SKILLS

Programming Languages: Python, R, Java, SQL, MATLAB, JavaScript, HTML, CSS
Technologies/Frameworks/Libraries: Git/Github , React, Pandas, Numpy, Scikit-learn, Pytorch, Microsoft Excel, Linux/Unix shell scripting, Cloud servers and High-Performance computing, gg-plot, Tidy-verse, Project tracking (Jira)

EXPERIENCE

Data Science Intern - Fred Hutchinson Cancer Center (Etzioni Lab: Modeling and Analytics for Cancer Diagnostics) (Seattle)
Time frame: June 2025 - Present

- Developed data pipeline to process and analyze prostate cancer tumor images
- Implemented deep learning AI and machine learning techniques to predict features from labeled image data and quantified results with custom visualizations and statistical metrics all in python
- Improved model performance on 5 mutation predictions by over 50 percent through fine tuning model
- Utilized Fred Hutch cloud servers and high-performance computing resources to train/validate models and do data analysis on over 3 million patches of messy pathology data
- Presented research work to intern cohort and researchers

IT Consultant - University of Washington (Seattle)
Time frame: December 2024 - November 2025

- Troubleshoot IT solutions for students and staff
- Automating IT workflows to streamline repetitive tasks
- Internal Database and Project management

Undergraduate Researcher - University of Washington Applied Physics Lab
Time frame: June 2024 - September 2024

- Investigated the unconformities present in radar imagery data in order to create a viable training dataset for machine learning model training (image classification)
- Developed a working map of more than 15+ viable routes Arctic researchers can utilize during explorations
- Collaborated heavily with other engineers and researchers
- Version control with git/GitHub to manage and communicate code

Data Science Intern - University of Washington Department of Statistics
Time frame: November 2021 - January 2022

- Investigated immunization datasets using the R programming language to derive statistical insights and create informative data visualizations for non technical audiences
- Identified most predictive variables for why certain groups in the US population are more or less likely to get immunized for diseases.
- Explored various sampling techniques including clustering, SRS-WOR, and auxiliary information to reduce computational costs
- Research culminated in a final report paper and presentation