

Vedasree Machiraju

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EDUCATION

Case Western Reserve University School of Medicine

January 2024 - Graduating December 2025

Master of Science in Biomedical and Health informatics

Coursework: Geographical Information systems, Artificial Intelligence (AI) in medicine, Health finance.

George Mason University

August 2018 - May 2022

Bachelor of Science in Biology, Minor in Psychology

Coursework: Biostatistics, Calculus 1, Abnormal Psychology.

TECHINICAL SKILLS

Programming: Python, R studio

Software & Tools: Jupyter Notebook, Microsoft Office (Access, Excel, PPT, Word), ArcGIS, Protege

Healthcare software: Epic EMR, Citrix, Clockwise, DJO MotionMD

Libraries: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Cufflinks

PROFESSIONAL EXPERIENCE

Wave Strategy

June 2024 - Current

Summer Internship Analyst

- Conduct comprehensive technology assessments and secondary research to evaluate biomedical innovations.
- Perform detailed market and competitive landscape analyses to identify opportunities and challenges.
- Analyze regulatory and intellectual property landscapes, along with reimbursement pathways, to provide strategic recommendations based on findings.

Inova Go - Health Urgent Care

October 2023 - December 2024

Advanced Clinical Associate

- Triage and intake of patients, conduct point-of-care testing, maintain medical records, lab results, and imaging reports on Epic EHR. Preparing patients for examinations and gathering specimens for lab work.
- Assisted, scribed, and transcribed charts for medical providers. Set up and aided in medical procedures as needed.

PROJECT

Predictive Modeling for Click-through Rates on Online Advertisement

January 2024 - February 2024

- Developed a predictive model to determine the likelihood of ad clicks based on user demographics and behavior. Conducted exploratory data analysis to visualize relationships between variables like age, income, and internet usage.
- Achieved ~90% precision and recall using logistic regression. Utilized Scikit-learn for data preprocessing, model training, and evaluation, demonstrating proficiency in machine learning and Python.

Exploratory Data Analysis of Bank Stocks

December 2023 - January 2024

- Analyzed bank stock prices from the financial crisis to early 2016 using Pandas and data visualization to study returns, correlations, and stock performance. Accessed data with Pandas DataReader.
- Encouraged independent research and provided guidance, catering to various skill levels and interests.

SEA Phages Research Program

August 2021 - May 2022

Student researcher

- Isolated Actinobacteriophage from a soil sample, purified, and amplified phage.
- Phage genomics, DNA analysis and annotation of PHAGE viruses.
- Utilization of Starterator, DNA master and Phamerator software to analyze genes.

CERTIFICATIONS

- Python for Data science and Machine learning
- Certified Clinical Medical Assistant (CCMA) - Certification # D3S7N2H2 (NHA)
- HIPAA for Mental Health Care Providers - Certification #357243

VOLUNTEER AND LEADERSHIP EXPERIENCES

- Ascend hospice - Volunteer at nursing home for 100+hours to provide support to elderly patients **March 2021 - November 2022**
- Inova Pediatrics Medical Surgery - Support volunteer at INOVA Fairfax hospital systems 100+ hours **January 2019 - September 2019**
- Events Coordinator - Indian Student Association Board member executed and marketed large events **January 2022 - May 2022**