

VANESSA VENKATARAMAN

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WORK EXPERIENCE

EPIC SYSTEMS

Verona, WI

Quality Assurance Manager

Sept 2023 - present

- Conducted testing for outpatient electronic medical record software applications that are used by the majority of U.S. News and World Report's top-ranked hospitals and medical schools
- Collaborated closely with developers to define and execute comprehensive test plans specifically tailored for genAI modules
- Contributed to the addition of a new data point in the community collaboration database that allows health systems to gain valuable insights and make discoveries from combined data

THE WELCOME PROJECT

Somerville, MA

Data Intern

June 2021 - Dec 2021

- Assisted in cleaning more than 10,000 rows of confidential constituent data in Excel to aid the immigrant advocacy program
- Acquired proficient skills in Microsoft Excel, implementing various strategies to enhance data efficiency, including data sorting, filtering, and advanced functions

TUFTS TECHNOLOGY SERVICES

Medford, MA

IT Support Specialist

May 2021 - Dec 2021

- Provided support to Tufts University students and staff in need of personal computer maintenance or software troubleshooting

EDUCATION

TUFTS UNIVERSITY, GRADUATE SCHOOL OF ARTS AND SCIENCES

Medford, MA

Master of Science in Data Analytics

Sept 2022 - Aug 2023

Cumulative GPA: 3.7/4.0

Relevant Coursework: Python and Machine Learning, Data Visualization with Tableau, Advanced SQL, Web Development

TUFTS UNIVERSITY, SCHOOL OF ARTS AND SCIENCES

Medford, MA

Bachelor of Arts

Sept 2018 - May 2022

Major in Community Health, Minors in Economics and Computer Science

Cumulative GPA: 3.6/4.0; Dean's List Spring 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022

Relevant Coursework: Survival Analysis, Data Structures, Discrete Mathematics, Health Information Systems, Health Statistics

Extracurriculars: Tufts University Varsity Softball Team (2018 - 2022); Senior Captain; Captain of Leadership Council

PROJECTS

STELLAR OBJECTS CLASSIFICATION MODEL

May 2023

- Developed and compared the performance of several machine learning models (K Nearest Neighbors, Logistic Regression, Random Forest) to differentiate between different types of stars based on their life cycle stage, utilizing advanced Python

GENTRIFICATION PREDICTION MODEL

Dec 2022

- Identified predictors of gentrification in two major metropolitan areas, New York and Los Angeles, using Python and R
- Utilized classification machine learning algorithms (Logistic Regression, Random Forest) to predict the likelihood of gentrification in census tracts utilizing advanced Python and R

For more details, please refer to my GitHub repository containing the above projects, as well as additional projects.

ADDITIONAL

Programming Languages: Python, C++, SQL, Javascript, HTML/CSS, R

Frameworks and Technologies: pandas, NumPy, scikit-learn, matplotlib, plyr, dplyr, ggplot

Software Packages: Tableau, Microsoft Excel (pivot tables, VLOOKUP), MATLAB, Stata

Awards & Honors: NFCA All-America Scholar-Athlete 2020-2021, 2021-2022