VIKI ZYGOURAS

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EDUCATION

Wellesley College BA in Computer Science, Class of 2020
Massachusetts Institute of Technology Cross-Registered Student, 2018-2020
American College of Greece - Athens Study Abroad Student, Spring 2019

EXPERIENCE

Undergraduate Researcher at MIT Media Lab, Cambridge, MA   January – June 2020
- Co-author of a social computing research paper under CSCW 2020 publication review.
- Completed data collection, cleaning, statistical analysis (Fisher, ANOVA, Post-hoc Tukey tests), and visualization in Python and R for paper results.
- Produced a three-minute video presentation of our paper for conference use.

Business Analytics Intern at TripAdvisor, Needham, MA   June – August 2019
- Queried internal databases to investigate business issues, produce dashboards, and summarize patterns in traffic and revenue with SQL, Python, and Tableau.
- Identified how domestic holidays influence travel in French, Japanese, and German points of sale by combining external holiday research with internal data.

Undergraduate Researcher at MIT Sloan School of Management, Cambridge, MA   September – December 2018
- Wrote Python scripts to scrape debt covenant data from the SEC's EDGAR database.
- Trained and improved the performance of a natural language processing model (NLTK, Regular Expressions) to classify debt covenant violations.

Software Engineer Teaching Assistant at Girls Who Code, Boston, MA   June – August 2018
- Taught units on Python, Web Development, Robotics, and Data Science.
- Led discussions on the importance of women in technology with high school students.

SKILLS

Programming Languages: Python, SQL, R, JavaScript, Java, HTML, Tableau
Relevant Coursework: Artificial Intelligence, Computer Systems, Data Structures, Combinatorics and Graph Theory, Data Analysis and Visualization, Number Theory, Analysis of Algorithms, Big Data and Data Mining, Relational Database Management Systems, Applied Data Analysis and Statistical Inference, Theory of Computation, Theory of Programming Languages, Machine Learning

PROJECTS

Vandalism and Gender Disparity Across Wikipedia: Group Data Science Research Project (Gender and Wikipedia)

Contributed to hypothesis development, data collection, exploration, and visualization of vandalism data to understand the gender dynamics of Wikipedia.

3D Eiffel Tower: Open Source Computer Graphics and Animation Project (Eiffel Tower)

Recreated the Eiffel Tower with THREE.js graphics library. Used lathe geometries, Bezier curves, and hierarchical modeling. Simulated the Eiffel Tower's light show with animation.

Digital Natives: Independent Data Science Project (Digital Natives)

Used naïve-Bayes classification, statistical analysis, and data visualization to measure growth through technology using data from Gmail and Chrome.