Megan Sin

mpsin@wpi.edu | 508-654-8316 | Boston, MA | linkedin.com/in/megan-sin/

EDUCATION

Worcester Polytechnic Institute   Worcester, MA
Master of Science in Data Science   Expected May 2024
Bachelor of Science, Major in Data Science   Expected May 2024
GPA: 4.0/4.0 (Dean's List for 6 Semesters)

Relevant Coursework: Data Mining in Databases, Database Management Systems, Business Intelligence, Artificial Intelligence, Machine Learning, Deep Learning, Information Retrieval, Big Data Management

EXPERIENCE

JPMorgan Chase & Co.   Plano, TX
AI & Data Science Summer Analyst   Jun 2023 – Aug 2023
- Unified 200 customer features from data tables using ETL and SQL, simplifying data access for streamlined analysis
- Empowered business leaders to extract customer insights using intuitive Tableau dashboards
- Automated documentation compilation via a Python script, improving repository maintenance efficiency

The Hanover Insurance Group   Worcester, MA
Community Relations Intern   Jun 2021 – Aug 2022
- Revamped CEO matching strategies and boosted company-wide giving campaign engagement using an Excel model
- Crafted actionable insights to improve job listing engagement using Excel and Power BI dashboards

PROJECTS

Computational & Data Science Tools for Environmental Science: Beecology Project   Aug 2023 – Present
- Developed citizen science project in collaboration with professors at WPI and UMass to provide data insights on butterfly species, population, and behavior
- Provided essential data insights to app users via variety of visualizations on a team of four members
- Created interactive data visualizations using D3.js to encourage application visitors to explore data patterns

SpotBot: Fake Yelp Review Detector   Jul 2023
- Implemented an automated fake review detection tool with 87% model accuracy using Python and BERT NLP
- Uncovered class imbalances and understood data distributions via exploratory data analysis (EDA)
- Prepared review data for BERT classifier via PyTorch input pipeline with tokenization

AI Resume Parser   Dec 2022
- Developed web application to screen candidate resumes and automatically identify missing keywords
- Extracted key information using named entity recognition and other NLP techniques in a Python backend

Predictive Modeling for Stroke Diagnosis   Dec 2022
- Investigated statistical relationships using correlation matrix in R, and determined risk factors for stroke prediction
- Reduced bias and improved accuracy by employing SMOTE to address the 5% stroke rate imbalance in the dataset

SKILLS

Certifications: AWS Certified Cloud Practitioner (Sep 2023), DataCamp Associate Data Analyst (Aug 2023)
Programming Languages: Python, SQL, Java, R, HTML, CSS, MATLAB, JavaScript
Libraries: scikit-learn, pandas, matplotlib, ggplot, PyTorch, nltk, BeautifulSoup, SQLAlchemy
Tools: Tableau, Power BI, Microsoft Excel, Teradata, MongoDB, Amazon SageMaker, Git, Bitbucket, DataRobot, Azure

LEADERSHIP

Vice President, Women's Club Volleyball, WPI   Aug 2023 – Dec 2023
- Identified team's strengths and weaknesses to design tailored practice plans and elevate members' skills

Treasurer, Society of Asian Scientists and Engineers, WPI   May 2023 – Dec 2023
- Managed $50,000 budget, processed expenses, and advised the executive board on cost-saving initiatives

Assistant Philanthropy Chair, Phi Sigma Sigma Fraternity, WPI   Jan 2023 – Dec 2023
- Coordinated fundraisers to support local schools in the community and the Kids in Need Foundation