Sara Kent

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EDUCATION

Northeastern University, Boston, MA — Sept. 2021 – Present
Khoury College of Computer Sciences — **Expected May 2025**
Candidate for a Bachelor of Science in Data Science and Psychology
Honors: Dean's List | Dean's Merit Scholarship | **GPA 3.97/4.0**
Related Courses: Machine Learning and Data Mining, Large-Scale Storage and Retrieval, Linear Algebra, Foundations of Data Science, Database Design, Intermediate and Advanced Programming with Data, Information Presentation and Visualization, Discrete Structures

San Ramon Valley High School, Danville, CA — Aug. 2017 – June 2021
Honors: Graduated with Highest Honors | Scholar Athlete | GPA 4.3/4.0

TECHNICAL SKILLS

Languages: Proficient: Python, SQL | Familiar: JavaScript D3, HTML, CSS, SPSS, Java
Software: Pycharm**,** Jupyter Notebook, SQL Server, PostgreSQL, GitHub, Microsoft Office

PROJECTS

TJX Store Sales Modelling: Python, Prophet, Pytorch, Microsoft SQL Server — July – Dec. 2023
- Leveraged historical sales data via SQL to develop 2 robust machine learning models, Prophet and an LSTM neural network, for predicting sales for a chain of retail stores
- Designed data processing pipelines and advanced feature engineering to enhance the models
- Presented results to senior leadership, showcasing a 2 percent error reduction during the testing period by the Prophet model compared to the current model

Bigfoot, UFOs, and Where to Find Them: HTML, CSS, JavaScript D3 — Feb. – April 2023
- Designed and developed a website with an interactive map visualization of phenomena sightings linked to a bar chart that updated in real time when the user interacted with the interface
- Collaborated with a team to host the website on GitHub pages, showcasing strong project management and communication skills

Tracking Asteroids Using Machine Learning and APIs: Python, pandas, skit-learn, plotly — Oct. – Dec. 2022
- Implemented a data-processing pipeline to gather and clean data from a NASA API and a CSV file
- Created a random forest classifier to determine if asteroids were hazardous or not, and analyzed the confusion matrix to determine if the classifier could be trusted
- Utilized k-means clustering to understand how asteroids could be grouped, and created visualizations using plotly to explore these clusters

EXPERIENCE

The TJX Companies, Framingham, MA — July – Dec. 2023
Data Science Co-Op
- Executed various ad-hoc data requests in SQL, delivering insights to stakeholders by fostering effective communication between technical and non-technical team members
- Managed weekly reporting, including the creation and automation of 2 new reports in Python
- Successfully navigated the 6 month co-op long capstone project by strategically setting milestones and effectively prioritizing concurrent tasks to achieve numerous project goals

Northeastern University Varsity Volleyball, Boston, MA — Aug. 2021 – Dec. 2022
Team Member
- Contributed to the team as an active member by participating in team practices, weightlifting sessions, team bonding activities, and outreach events for 20 hours a week
- Collaborated with a diverse group of team members and administrators while developing strong teamwork, problem-solving, and goal-setting skills
- Developed strong time management and prioritization skills by balancing a demanding course load with participation as a dedicated student-athlete