Mark Rose

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EDUCATION

Stonehill College | Easton, MA   Anticipated Graduation: May 2026
Candidate for Bachelor of Science Degree
Major: Data Science | Minor: Business Administration | GPA: 3.49

RELEVANT COURSEWORK

Introduction to Data Science, Data Structures, Database Management Systems, Probability and Statistics I, Artificial Intelligence

WORK EXPERIENCE

Stonehill College | Easton, MA   August 2024-Present
Resident Assistant
- Facilitate a welcoming and inclusive residential community for 150+ first-year students by organizing monthly events, mediating conflicts, and fostering peer relationships to enhance student engagement and retention
- Ensure the safety and well-being of residents by conducting regular building inspections, enforcing university policies, and providing on-call support for emergencies, contributing to a secure and supportive living environment

Constitution Capital Partners | Andover, MA   May 2024-August 2024
Summer Analyst
- Developed and optimized a financial performance database in Power BI and Excel, consolidating 16+ years of quarterly data (2008–2024) to help ROI analysis and enhance investment forecasting
- Designed and executed financial models to assess investment viability, using sensitivity analysis to guide capital allocation strategy and mitigate risk for high-value investment decisions
- Conducted due diligence on $90 million in potential investments, leveraging financial forecasting, risk modeling, and valuation techniques to create executive reports for the leadership team

Dicks Sporting Goods | Seabrook, NH/Mansfield, MA   June 2022-April 2024
Retail Sales Associate
- Assisted with daily and monthly inventory of over 1000 domestic and foreign products while managing cash and credit sale transactions for customer purchases utilizing a Point-of-Sale system
- Trained 15 new employees in company policies and procedures ensuring proper compliance and superior customer service

RELEVANT PROJECTS

Game Prediction Application | **Statistical Model**   December 2024-Present
- Developed a multi-sport game prediction application that utilizes web scraping and real-time APIs to gather and analyze team and player data, applying Min-Max Scaling and Z-Score Standardization to make consistent feature scaling
- Implemented a Python-based backend with SQLite to process statistical data and generate game predictions with ~85% accuracy, utilizing libraries such as Pandas, NumPy, and Scikit-learn for data analysis and modeling
- Integrating machine learning and optimization algorithms using TensorFlow to enhance predictive accuracy and expand application functionality

Web Scraping Application | **Full Stack Website**   October 2024-December 2024
- Developed an AI-powered web scraping tool using Python, automating data extraction with pagination support and saving results in JSON and CSV formats
- Integrated AI APIs for intelligent data extraction, enhancing accuracy and efficiency in parsing website content
- Built a user-friendly interface with Streamlit, enabling seamless interaction and data retrieval without coding knowledge

LEADERSHIP EXPERIENCE

YMCA | Ipswich, MA   May 2023-Present
Leadership Staff
- Lead and mentor a team of staff and volunteers, increasing engagement and development through high-quality programs
- Plan and implement educational activities that teach archery and wilderness survival skills, fostering a deeper connection to nature and outdoor education

Aloha Foundation | Fairlee, VT   December 2024-Janurary 2025
Leadership Staff
- Led a team of 12 in organizing and executing outdoor wilderness activities and New Year's Eve events, ensuring a safe and engaging experience for 100+ participants while fostering teamwork and adaptability in dynamic outdoor settings

SKILLS

Programming Languages: Python, Java, JavaScript, SQL, HTML, CSS, SAS, C++, and R
Computer: Excel, PowerPoint, Word and PowerBI
Clubs: Association for Computing Machinery (ACM), Sales Club, Chess Club
Interests: Golf, Basketball, Soccer, Country Music, and Fishing