Vidyut Ramanan

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Education

Northeastern University, Boston, MA — Sept. 2021 - Present
Khoury College of Computer Sciences (Candidate for Bachelor of Science degree in Computer Science) — May 2025
Academic Honors: **GPA 3.85/4.0**, Dean's List, Dean's Scholarship
Related Coursework: Algorithms and Data, Object Oriented Design, Machine Learning, Foundations of Data Science and Data Mining, Computer Systems, Fundamentals of Computer Science 1 & 2, Linear Algebra

Computer Knowledge

Languages: C# | Java | Python | JavaScript | CSS | HTML | SQL | C
IDE's: Eclipse | IntelliJ | Android Studios | Jupyter Notebook | PyCharm | Visual Studio
Tools/Frameworks: Git | REST API | Node.js | React.js | JUnit | Android API | Linux Terminal | Java Swing | React Native | Angular | SQL Server

Projects

Clothing Recommendation App (Ongoing) - *React Native, Node.js, Firebase, Expo* — October. 2023
- Developing an app that allows users to upload their clothes, creating a digital wardrobe for easy management
- Incorporating artificial intelligence algorithms to analyze uploaded clothing and provide recommendations
- Utilizing React Native to ensure seamless performance and user experience across both Android and iOS

Spotify Song Reaction Website - *React.js, Node.js, Supabase* — Feb 2023
- Developed a website for users to post songs they are listening to and react with emojis to other people's songs
- Utilized React.js to develop the front end due to the reusability of components to speed up development
- Utilized Supabase to store posted songs for a feed due to its compatibility with React and Spotify API

Machine Learning NBA Draft Prediction - ***Supervised Machine Learning, Exploratory Data Analysis*** — Dec. 2022
- Implemented 3 machine learning models, tuned hyperparameters, and compared ability to predict drafted players
- Achieved a 0.98 classification accuracy and ranked the most important features used for classification
- Cleaned and prepared a dataset of 61061 entries using Python libraries such as NumPy, Pandas, and Sklearn.

Work Experience

Millipore Sigma, Danvers MA
Software Engineering Coop
- Created a website for generating diverse reports from SQL part data, allowing users to download in Excel or spreadsheet formats. Implemented user access groups and ad-hoc report generation.
- Enhanced an existing app by developing a tool to archive completed jobs, utilizing SharePoint API to transfer data to SQL tables seamlessly.
- Designed a user-friendly form for sales personnel to request custom drawings, enabling easy retrieval, modification, and efficient approval workflow through automated emails. Integrated SQL tables for version tracking.

Northeastern University, Boston, MA — Sept. 2022 - May 2023
Teaching Assistant for Fundamentals of Computer Science 1
- Oversee a lab of 35 students, conduct concept reviews, and answer questions
- Provide 4 office hours a week and teach students as well as guide them on assignments
- Grade 15-20 HW assignments and 15 labs a week, using written comments to communicate improvements

Hobbies and Interests

Skateboarding, Drawing, Working out, Unicycling, and Guitar