JASH PALEJA

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Experience

Healiom　　　　　　　　　　　　　　　　　　　　　　　　　**San Mateo, CA, USA**
Data Scientist Intern　　　　　　　　　　　　　　　　　　　　*May 2023 - Aug 2023*
- Executed an ETL pipeline on electronic health record (EHR) data, optimizing its structure and format for further analysis.
- Developed functionality to automate mapping medical transcript entities to codes using Python, Chromadb, and instructor-large model. Resulting in reduced time by 40% for manual code assignment.
- Implemented search suggestions of EHR codes & and representations using Python, and Whoosh API improving search efficiency for medical professionals by 80%.

Dotminds LLP　　　　　　　　　　　　　　　　　　　**Mumbai, Maharashtra, India**
Software Engineer Intern　　　　　　　　　　　　　　　　　　*Aug 2020 - April 2022*
- Built React Native app to streamline interior design project management, cutting processing time by 60%.
- Managed a team of 5 to architect and develop apps using agile methodology.
- Created web app with dashboard & admin panel using ReactJS for political services and info requests.
- Added new features like state management with Redux and push notifications using FireBase, enhancing speed & performance by 50% .

Education

University at Buffalo　　　　　　　　　　　　　　　　　**Buffalo, New York, USA**
Masters in Data Science　　　　　　　　　　　　　　　　　　*Aug 2022 - Jan 2024*
- ∗ **Relevant Coursework:** Probability, Numerical Mathematics for Computing, Statistical Learning and Data Mining, Programming and Database Fundamentals, Reinforcement Learning, Machine Learning, Data Models Query Language, Data Visualization.

University of Mumbai　　　　　　　　　　　　　　　**Mumbai, Maharashtra, India**
Bachelors in Computer Science　　　　　　　　　　　　　　　　*Aug 2018 - May 2022*
- ∗ **Relevant Coursework:** Machine Learning, Database Management System, Artificial Intelligence, Big Data Analysis, Applied Data Science, Data Structure & Algorithm.

Projects

Portfolio Optimization using Reinforcement Learning - LINK　　　　　　　**May 2023**
- ∗ Extracted live data from Yahoo Finance for real-time market information upto 20 years of data for about 10 companies.
- ∗ Developed a customized environment using OpenAI Gym, constructed an Advantage Actor-Critic Model from scratch with PyTorch, and implemented stable baseline models (A2C, PPO) to optimize portfolio management.
- ∗ Conducted a comparative analysis with the Uniform Portfolio benchmark, visualizing agent's performance through reward per episode graphs, demonstrating its adaptability when an agent was proportional to a uniform weight's portfolio.

Survival Analysis on Employee Attrition - LINK　　　　　　　　　　　**October 2023**
- ∗ Analyzed various factors influencing attrition and presented findings through Kaplan Meier Survival Curve.
- ∗ Implemented Cox Proportional Hazards Model to delve into individual survival probabilities until employee attrition.
- ∗ Articulated insights on statistical data interpretation and assessed goodness of fit through Cox Proportional Hazards graphs.

Exploratory Data Analysis on Layoff Dataset - LINK　　　　　　　　　　**June 2023**
- ∗ Identified key patterns. Demonstrated proficiency in data analysis and trend recognition.
- ∗ Utilized Tableau for data visualization and created an interactive dashboard.

Skills

Programming Languages: Python, SQL, R, JavaScript, Java, C.
Machine Learning: Scikit-learn, Regression (Linear, Logistic, Multilinear), Classification, Unstructured Data.
Data Visualization: Tableau, Power BI, Microsoft Excel, Matplotlib, Plotly.
Technologies/Frameworks: Git, PySpark, Apache Spark, Pandas, Numpy, PostgreSQL, SQLite, MySQL, JIRA.
Technical & Soft Skills: Management, Data Wrangling / Data Cleaning, Data Analysis, Descriptive Analysis, Statistical Modelling, Decision Tree, Hypothesis Testing.