

JASH PALEJA

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Experience

Healiom

San Mateo, CA, USA

Data Science Intern

May 2023 - Aug 2023

- Languages and Tools: Python, Chromadb, Whoosh
- Developed model to automate mapping medical transcript entities to codes using Python, Chromadb, instructor-large model.
- 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 Development Intern

Aug 2020 - April 2022

- Languages and Tools: - React Native, React Js, Redux, JavaScript, SQLite, Html, CSS, Bootstrap.
- Built React Native app to streamline interior design project management, cutting processing time by 40%.
- Created website with ReactJS and admin panel for local services and info requests.
- Collaborated with a 5-person team to architect and develop apps using agile methodology.
- Added new features like state management with Redux and push notifications, enhancing speed & performance by 50% .

Education

University at Buffalo

Buffalo, New York, USA

Masters in Data Science

Aug 2022 - Jan 2024

- * **Selected Coursework:** Probability, Numerical Mathematics for Computing, Statistical Learning and Data Mining, Programming and Database Fundamentals, Reinforcement Learning, Machine Learning, Data Models Query Language.

University of Mumbai

Mumbai, Maharashtra, India

Bachelors in Computer Science

Aug 2018 - May 2022

- * **Selected Coursework:** Data Structures, Machine Learning, Database Management System, Artificial Intelligence, Big Data Analysis, Applied Data Science.

Projects

Portfolio Optimization using Reinforcement Learning - [LINK](#)

May 2023

- * Technologies & Tools: Python, Matplotlib, OpenAI Gym, Pandas, NumPy
- * 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 and constructed an Advantage Actor-Critic Model from scratch 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

- * Technologies & Tools: Python, NumPy, pandas, scikit-learn, matplotlib, plotly
- * 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

- * Technologies & Tools: Python, Tableau, Pandas
- * Identified key patterns. Demonstrated proficiency in data analysis and trend recognition.
- * Utilized Tableau for data visualization and created an interactive dashboard.

Technical Skills

Languages: Python, SQL, JavaScript, R, Java, C, HTML, CSS.

Machine Learning: OpenCV, Pandas, Numpy, PyTorch, Regression, Classification, Unstructured Data.

Technologies/Frameworks: MS Excel, Tableau, Git, PyTorch, JIRA, React Js, React Native, Redux, Bootstrap.

Technical Soft Skills: Management, Database Management, Data Visualization, Data Scraping, Data Wrangling / Data Cleaning.