

# 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 data embedding.
- 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.