Hriday Baghar

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Education

University of Washington ***Seattle, WA***
Master of Science: Data Science ***Mar 2023 (Expected)***

- *GPA:* 4.0/4.0
- *Relevant coursework:* Probability and Statistics, Data Visualization, Applied Statistics and Experimental Design, Software Design for Data Scientists

Vellore Institute of Technology ***Vellore, India***
Bachelor of Technology: Electronics and Communication Engineering ***May 2019***

- *CGPA:* 8.73/10
- *Relevant coursework:* Image Processing, Web Mining, Data Structures and Algorithms, Neural Networks

Experience

Proteus Technologies Pvt. Ltd. ***Mumbai, India***
Software Engineering Intern ***May 2021 – Aug 2021***

- Designed an e-learning solution for 200+ students in rural India with limited internet and technology access
- Developed the solution using Node-RED and MySQL, made accessible via a Telegram chatbot

Mu Sigma Business Solutions Pvt. Ltd. ***Bengaluru, India***
Trainee Decision Scientist ***Jun 2019 – Dec 2020***

- Consulted for the Data Science and Analytics division of a Fortune 500 US Pharmaceutical company on multiple projects for their health economics and clinical trials teams. Received a "spot award" for individually handling projects with client POCs along with performing quality checks for other critical team projects
- Analyzed EHR data to understand treatment patterns of cancer patients in the real world. Visualized and compared treatment switching, adherence, and discontinuation of various groups of interest through Sankey Charts in R. Results helped client identify off-label drug usage and analyze market share across different stages of treatment journey
- Built statistical models like logistic regression and Cox proportional hazards in SAS to answer hypotheses about racial and other disparities in treatment access and survival for patients across multiple cancer types. Analysis allowed client to identify areas to focus on in order to improve health equity for groups that are underserved
- Conducted feasibility analysis on EHR data to guide decisions on clinical trial recruitment for cancer patients. Reported baseline characteristics, calculated prognostic risk scores, and performed patient survival analysis using the Kaplan-Meier method. Client was able to tweak enrollment criteria and improve recruitment by 10% for a clinical trial that was falling short of its goal
- Developed dashboards on Tableau to report metrics such as drug market share, treatment cost, patient adherence etc. that was used daily by thousands across the client organization including the leadership team

Skills

- *Programming Languages:* SQL, SAS, Python (numpy, pandas, seaborn, sklearn, re, bs4, plotly), R (dplyr, ggplot2)
- *Software:* Microsoft Excel, Tableau, MATLAB
- *Certifications:* Machine Learning (Stanford University - Coursera) [link], Tableau Fundamentals [link]
- *Statistics and Data Science:* Survival analysis, Hypothesis testing, A/B testing, Regression analysis, PCA, Data wrangling

Projects

Visualization of NBA Player Data ***Nov 2021***

- Developed a dashboard on Tableau to analyze and explore NBA player statistics, shooting accuracy and shot distribution over 20 seasons [link]

Analysis and Prediction of Customer Churn ***Jun 2019***

- Explored user data and identified key drivers of customer churn for users of a telecom company
- Created a customer churn prediction model using Random Forest algorithm that was 92% accurate