PRAMILA CHAUDHARY

CONTACT

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Pramilachaudhary

SKILLS

Machine Learning / Deep Learning: Linear / Lasso / Logistic Regression, Decision Trees, Random Forests, CART, Ensemble Models, SVD, PCA, TSNE, Neural Networks (NN), K-Means Clustering, Dimensionality Reduction, Feature Selection, Evaluation
Programming Languages: Python, Java, SQL, Java, C, HTML/CSS
Data visualization tools: Tableau, Matplotlib, Seaborn, MS Excel
Others: Pandas, Scikit-learn, Numpy, Beautifulsoup, nltk
Natural Language Processing: Topic modeling (LSA/NMF/LDA), TF-IDF, Stemming, Lemmatization

EDUCATION

Nova Southeastern University
Masters Computer Science 2020

National Institute of Technology Puducherry
Bachelor Electronics and Communication Engineering 2014

EXPERIENCE

Metis Seattle, WA
Data Scientist Jan. 2022 to Mar. 2022
Completed Metis's 12- week data science bootcamp focused on Machine Learning, Statistical Modeling, Data Visualization and Project Design using Python. Designed, implemented, and presented the following projects:

Analyzing Negative Reviews for E-Commerce Company
- Used unsupervised learning and topic modeling on over 23,000 negative customer reviews about women's clothing to identify areas of improvement for customer experience.
- Compared performance of multiple unsupervised learning models including LSA, NMF, and LDA to find the best model.
- Created recommendation list for company based on each topic area.
- GitHub [https://github.com/Pramilachaudhary/Unsupervised-NLP-Project.git]

Random Forest Classification Model for Determining Poisonous Mushrooms
- Deployed a random forest model to determine whether or not a mushroom is poisonous for a pharmaceutical company.
- Model performed well based on ROC AUC = 89%
- After tuning hyperparameters, trained the model based on a dataset of 61,000 different mushroom physical characteristics.
- Achieved a model accuracy of 99%, Recall of 98% and fbeta_score of 99%
- GitHub [https://github.com/Pramilachaudhary/Classification-Project.git]

Analyzing Features for Detecting Heart Disease at an Early Stage for Fitbit Users
- Delivered a well-scoped project proposal and preliminary analysis between medical factors related to heart disease and patterns to Fitbit.
- Used Tableau for exploratory data analysis to find interesting insights and, based on the analysis, made recommendation to Fitbit market team to focus more on customers with a higher risk of heart disease.
- GitHub [https://github.com/Pramilachaudhary/Business_Fundamentals_Project.git]

Domestic Revenue Prediction for Movies
- Scrapped over 2,000 movies using Beautiful Soup from boxofficemojo.com.
- Built and optimized linear and lasso regression models to predict total domestic revenue for movies with R^2 value (metric) of 0.745 to find the best model for final test data.
- GitHub [https://github.com/Pramilachaudhary/Project2_linear_regression.git]

Vending Machines in New York Stations
- Performed an exploratory data analysis on NYC MTA turnstile data to determine the optimal placement for a vending machine by identifying which station has maximum total traffic of people entering and exiting the station.
- Found the ideal days of a week and time duration in which the vending machines can be refilled before the peak traffic hour starts.
- GitHub [https://github.com/Pramilachaudhary/EDA_Project.git]

Mahanagar Telephone Nigam Limited (MTNL) Mumbai, India
Software Engineering Intern May 2013 to July 2013
- Developed Employee Leave Management and File Tracking applications in ASP.Net and C# for 1,000,000+ row employee database.
- Completed a certification program on “Converged Communications” focusing on wireless networks and protocols.