

Meghana Grandhi

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EDUCATION

Old Dominion University

Norfolk, VA

USA Master of Science, Computer Science, GPA – 3.6 May 2023

Vardhaman College of Engineering

Hyderabad, Telangana, India

Bachelor of Technology – Information Technology, GPA – 3.5 May 2017

PROJECTS:

DECISION ANALYTICS & OPTIMIZATION: TO TACKLE OPERATIONS RESEARCH PROBLEMS & PERFORM SENSITIVITY ANALYSIS

- Developed an investment portfolio optimization model using risk acceptance profiles.
- Devised machine-time optimization model using shadow pricing and sensitivity analysis.
- Formulated project management resource allocation modeling
- Analyzed and simulated Kroger's optimization model of inventory management in Pharma industry.

PYTHON – MACHINE LEARNING & NEURAL NETWORKS TO IMPROVE EFFICIENCY IN ANALYTICAL PROCESSES

- Performed EDA and statistical analysis to draw correlations to determine event turnout at Smith school.
- Competed with 100 students in an information challenge performing EDA to uncover patterns in data removed from the Paycheck protection program official database of Georgia with more than 5M observations. Fit the data using decision tree and random forest algorithms to observe the predictability of the model with an AUC of 0.95 - 0.97.
- Experienced in building neural network & CNN models to achieve high accuracy. Explored varied combinations of epochs, batch sizes, denormalization, inclusion / exclusion of hidden layers and corresponding activation functions.
- Implemented image classification with a training data set of more than 60K images for apparel data using Keras and Pytorch.

R – DATA MINING & PREDICTIVE ANALYTICS TO REDUCE RISK OF UNINFORMED DECISIONS

- Performed data cleaning – removal and replacement of missing values, scaling, min-max normalization to make sure data is in the right format before fitting it to models. Wrangled and transformed data using Tidyverse, dplyr.
- Improvised statistical analysis, developed, trained, and tested regression models of various kinds, using both cross validations, LOOCV, bootstrapping, performed time series analysis and exponential smoothing using R.
- Implemented linear, multiple, and logistic regression, decision trees (both classification & regression) to analyze numerical and categorical data of 3M observations.
- Developed ensemble models using bagging, boosting, Bayesian additive regression trees, XG boost. Well versed with regularization.
- Used performance measures like RMSE, MAPE, to measure accuracy, sensitivity, specificity, predictability rates.
- Produced ROC curves, Lift, decile, and AIC BIC charts to see the accuracy of the models on both training and testing datasets and to understand feature importance.
- Proficient in building plots in R using GGPlot, GGAanimate.

TABLEAU – DATA VISUALIZATION:

- Worked on developing several stories Dashboards for better visualization of insights and data retrieval. Connected to MySQL server to join multiple tables, performed visualization for joins and nested queries etc.
- Experienced in created complex network structures, stacked bar charts, choropleth / filled maps, scatter plots, & time series charts.

BILLING SYSTEM USING DATABASE MANAGEMENT SYSTEM IN PHP

- Worked on creating a billing system for a electricity billing company which automatically generates a bill based on the number of units consumed by the user.
- The system works on storing the data in the data in a database and then a PHP code was used to generate the bill, complaints and process the bills

TECHNICAL SKILLS

- Programming languages – Python (NumPy, Scikit-Learn, SciPy, Pandas, Matplotlib, Seaborn), SQL (MySQL), ABAP, C, C++, Java
- Tools – Statistical modeling, Tableau, Power BI, SAP, Palisade suite, Microsoft Office – Excel – Analysis and Solver, Word, PowerPoint
- Operating systems – Windows, Linux

TECHNICAL TRAININGS & CERTIFICATIONS

- Google Digital Unlocked Certificate 2019 – (Offline).
- Cambridge Business English Certificate 2018 – (offline)
- Great learning linear programming in data science 2022 - (online)
- Internship at company CloudTaru Infotech where my focus was working on client databases using Microsoft dynamics 365 and power BI - (2022)

WORK EXPERIENCE**CloudTaru Infotech****Hyderabad, Telangana, India****Intern, Application Development****– April 2022**

- Worked to transform and migrate data (Excel, Python, SQL, and SAP) with 92% accuracy for an entertainment industry client.
- Presented insights and alternate path analysis via Power BI dashboards to leadership team, Calibrated business outcomes, provided consulting and training to client.

EXTRA CURRICULAR ACTIVITIES

- Member of IEEE, 2018-2021
- Attended the Walk the Talks an In Campus Workshop, 2019
- Attended Google Digital Unlocked Workshop ,2019
- Participated in IIIT Megathon, 2018
- Core member of planning and organization in my college
- Students represent of intern Shala for Vardhaman college of engineering.
- Worked at the university administration front desk during my undergrad.
- Worked as the organization team lead at the TedX event during my undergrad.