

Bhavish Kumar

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EDUCATION

Syracuse University, School of Information Studies, Syracuse, NY
M.S. Applied Data Science

May 2021
GPA: 3.95

Relevant Coursework: Intro to Data Science, Data Analysis and Decision Making, Database Management, Big Data Analytics, Data Analytics, Business Analytics, Text Mining

Cochin University of Science and Technology, Cochin, India
Bachelor of Technology in Electronics and Communication Engineering

April 2016

EXPERIENCE

Data Scientist at iConsult Collaborative at Syracuse University, Syracuse, New York August 2020 to Present

- Enhanced the quality of healthcare by collaborating with stakeholders of a major hospital and developing machine learning models to make patient level ailment predictions

Mu Sigma Business Solutions Pvt Ltd, Bangalore, India

May 2016 to June 2019

Decision Scientist

- Generated an annual 200% increase in the overall customer value proposition score of a fortune 10 eCommerce client by formulating a competitor analytics framework that helped gauge performance against the market leader
- Evaluated monthly KPI scores using the formulated analytics framework that quantifies dimensions of customer's eCommerce experience and devised PySpark & SQL queries on survey and Hadoop data sources for assessing scores
- Visualized metric scores on a RShiny dashboard to help Chief Officers and 2500 managers to track monthly progress
- Collaborated with client to perform iterative Big Data exploration, statistical & ad-hoc analysis based on business understanding to improve accuracy of the estimated metric scores, thus opening the scope for framework automation
- Headed a team of 4 and built Data Marts, Data Pipelines through ETL operations with PySpark & SQL to automate the process of evaluating metric scores which decreased the evaluation & dashboard refresh time by 27-man hours

Trainee Decision Scientist

- Collaborated with Human Resource team and gathered functional requirements to develop business process web applications by leveraging a tool that uses .Net/C# on the server side, HTML/CSS for frontend and MS SQL for backend
- Aided HR team to carry out their business processes by developing candidate hiring & attendance tracker applications from end to end, starting from data modelling & data warehousing at the back-end to UI design at the front-end

ACADEMIC PROJECTS

Will Car be a 'lemon'

April 2020 to May 2020

- Helped Auto dealers avoid the risk of buying faulty cars ('lemons') at auto auctions, which cannot be resold later
- Headed a team of 3 in a strategic direction by implementing CRISP-DM methodology to construct ensemble Machine Learning models (GBM & Random Forest), to help auto dealers accurately predict if a car is going to be a 'lemon'
- Evaluated the model performance and fine-tuned the machine learning models to maximize Accuracy & Recall
- Created a web application (RShiny Dashboard) containing insightful visualizations and a ML prediction module

Hospital Readmission Prediction

April 2020 to May 2020

- Aided hospitals to prevent readmission of diabetes patients after discharge, caused due to ineffective treatment
- Headed a team of 4 that operated PySpark & devised Machine Learning models to help the hospital predict if a patient is going to get readmitted after discharge, based on which the hospital can alter their treatment to avoid readmission
- Performed Data Wrangling, Data Preprocessing and identified the most powerful features using PCA technique
- Developed a Machine Learning model using 'Gradient Boosted Trees' algorithm & fine-tuned it to maximize 'AUC'

TECHNICAL SKILLS

Languages: SQL, R (caret, ggplot2, tidyverse), Python(scikit-learn, PyTorch, keras, matplotlib), R Shiny, PySpark, C#, HTML/CSS

Techniques: EDA, Regression, Classification, Clustering, Deep Learning, Time Series Forecasting, Association Rules Mining

Tools/Softwares: MS Excel (Vlookup, Pivot Tables, Analysis ToolPak, StatTools, Solver), Tableau, MS SQL Server, Hadoop/Hive

Soft Skills: Critical Thinking, Requirement Gathering, Business Communication, Decision Making, Consulting, Problem Solving

LEADERSHIP

- E-Board member (Tech Lead) of the Data Science Club at Syracuse University May 2020 to May 2021
- Organized a fund raiser for techno managerial symposium conducted by Model Engineering College March 2015