**ROHAN CHAUDHARI**

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**EDUCATION**

**University of Maryland, Robert H. Smith School of Business College Park, MD, USA Master of Information Systems, GPA (3.67/4)** December 2020

● Data models and decisions-Statistical Data analysis using Microsoft Excel and Tableau.

● Data processing and analysis in python

● Data Mining and predictive Analysis in R

● Database Management Systems- information modeling and optimization via SQL

**University of Mumbai** **Mumbai, MH, India**

**Bachelors in Electronics Engineering**, **GPA (8.92/10)** May 2019

● Applied Mathematics and Statistics, Structured Programming Approach, Object Oriented Programming in JAVA

● **Topper** of Electronics department

**TECHNICAL SKILLS**

● Programming languages– Python, R, C, SQL

* Tools– Jupyter Notebook, R Studio, MySQL, Google Analytics, Tableau, MS Excel, Power BI
* Machine Learning Algorithms – Linear, GLM, KNN, Elastic Net, Neural Networks, Decision Trees, Text Mining, NLP
* AWS services– EC2, S3, VPC, Glacier, DynamoDB, Aurora, ElastiCache, Redshift, Kinesis, Athena, IAM, CloudWatch

**CERTIFICATIONS**

* AWS Certified Solutions Architect- Associate
* Neural Networks and Deep Learning
* AWS Data Analytics Fundamentals
* Strategic Management from Copenhagen Business School
* Google Analytics Individual Qualification
* Business Strategy from Wharton Online: Competitive Edge & Connected Strategy

**PROJECTS**

**Airbnb Data Analysis February 2020- May 2020**

*Explanatory & Predictive analysis of Airbnb listings in Chicago using machine learning algorithms-*

*GLM, Elastic Net, Decision Trees and data visualization techniques in R*

* Performed data cleaning using null imputations and feature extraction on 55 columns and 250K rows of data
* Derived market insights in terms of value creation potential for Airbnb property owners by increasing property booking rates
* Classified Airbnb properties based on booking rates using machine learning techniques with 94% accuracy on 30% test data
* Visualized analytical findings to suggest effective business recommendations for customers and property owners

**Stock Analysis August 2019- December 2019**

*Predicting stock market performance using NumPy, Pandas, Matplotlib, Seaborn,* *Sklearn*

* Conducted technical analysis on historical stock data of companies like Apple, Amazon, Google, Microsoft
* Predicted future value of company’s stock using regression and ARIMA model with 99% accuracy
* Visualized data using heatmaps, candle-plots and time series plots to derive insights on company’s stock value

**CyberCharge August 2019- December 2019**

*Analytical business suite for University of Maryland Electric Vehicle Charging System using SQL, Tableau*

* Created database for managing electric vehicle charging stations where user can store, view and manipulate data
* Identified business transactions, created Entity Relationship diagram, performed normalization and formulated business rules
* Created Tableau dashboards to visualize most popular electric vehicles and the revenue generated by each charging station

**Transcutaneous Electrical Nerve Stimulation January 2019- May 2019**

*Pain treatment using waveform generator, current-voltage limiter, step-up converter with Arduino*

* Consulted physician to discuss and identify design flaws in existing TENS devices used for therapy
* Conducted physiotherapic research for identifying suitable rating of electrical signals to achieve effective therapeutic results
* Created and simulated device designs and achieved final output with current rating of 50A and voltage rating of 70 – 170V to effectively treat pain
* Transformed conventional unit from a bulky device to a simple pocket-sized portable system to provide cost effective treatment; reduced production cost from $300 to $60.