# Rohan Chaudhari

(240)-422-2154 ● College Park, MD 20740 ● rohan.chaudhari@rhsmith.umd.edu
www.linkedin.com/in/chaudharirohan https://github.com/rohanchaudhari

## 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
- Achieved first position in academics during academic year 2016-17; Ranked **second** overall in 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, Discriminant Analysis, Neural Networks, Decision Trees, PCA

## CERTIFICATIONS

- AWS Solutions Architect– *currently pursuing*
- AWS Data Analytics Fundamentals– *April 2020*
- Customer Analytics from Wharton Online– *March 2020*
- Strategic Management from Copenhagen Business School– *March 2020*
- Google Analytics Individual Qualification– *February 2020*
- Business Strategy from Wharton: Connected Strategy– *January 2020*
- Business Strategy from Wharton: Competitive Advantage– *December 2019*

## 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 visualization techniques in R*

- Carried out extensive data cleaning, processing and performed feature extraction for data preparation purposes
- Conducted exploratory data analysis on cleansed data to derive specific market insights and identify potential business growth
- Predicted booking rates of the Airbnb properties using machine learning techniques with 94% accuracy on 30% test data
- Visualized analytical findings & intuitions to suggest effective business recommendations to the Chicago property owners

**Stock Analysis** — **August 2019- December 2019**

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

- Acquired historical stock data of top companies like Apple, Amazon, Google, Microsoft, Facebook; cleaning and transformation
- Conducted technical Analysis on cleansed data to derive insights and to identify trends in company's stock value
- Predicted the future value of company's stock using regression and ARIMA model with 99% accuracy
- Visualized data using heatmaps, candle-plots and successfully implemented an API based chatbot

**CyberCharge** — **August 2019- December 2019**

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

- Created database for managing the electric vehicle charging stations where user is able to 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 charging station

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

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

- Conducted physiotherapic research to develop a device generating electrical signals to stimulate nerves for therapeutic purposes;
- Output current rating: 50 amperes and voltage rating: 70 – 170 volts to treat pain
- Incorporated most common stimulation modes; achieved single channel output with two electrodes (gel-pads)
- Transformed conventional TENS unit from a bulky device to a simple pocket-sized portable system to provide cost effective treatment; reduced production cost from $300 to $60.