Rechita Singh

(+1)945-232-6535; Rechita.Singh@utdallas.edu; https://www.linkedin.com/in/rechita-singh/ ; Github:// rechitasingh

EDUCATION

The University of Texas at Dallas May 2024
M.S., Concentration in Business Analytics – Data Science; ***GPA 4.0/4.0***
Relevant Coursework: *Applied Deep Learning, Applied Natural Language Processing (NLP), Programming for Data Science (Python), Applied Machine Learning, Advanced Statistics for Data Science, Modeling for Business Analytics(Python), Database Foundations for Business Analytics (SQL)*

University of Delhi, Delhi *Master of Science,* ***Operational Research*** May 2017
Relevant Coursework: Financial Management, Marketing research, Decision Theory, Data Warehousing & Data Mining
University of Delhi, Delhi *Bachelor of Science,* ***Statistics (Honors)*** May 2015
Relevant Coursework: Calculus, Algebra, Numerical Analysis, Statistical Inference, Stochastic Processes, Sampling, Econometrics

SKILLS:

Programming Languages: •Python • R • SAS • Lua LaTeX;
Statistical/Learning Algorithms: • Neural networks – Deep Learning, CNN • Regression techniques – OLS, Logistic • Clustering Analysis - Kmeans; Hierarchical • Statistics – Inferential, Predictive, Prescriptive •Optimization techniques – Non-Linear Programming, Convex Optimization • Decision Tree • Random Forest • SVM • XGBoost • KNN • PCA • EDA;
ML Frameworks/Others: •Keras • Tensorflow •Pytorch •Pycharm • OpenCV • AWS •Salesforce (CRM) • SQL • Git • PowerBI • SQL •Timeseries forecasting – ARIMA •Agile process •Microsoft Office • Python packages like Numpy, pandas, and/or scikit-learn, Streamlit

PROFESSIONAL EXPERIENCE

Brevan Howard, Austin, US (*Intern – Data Science)* May 2023 – Jul 2023

- Utilized Python programming **(PyCharm)** to proficiently **develop backend infrastructure, automated processes, and enhance data management efficiency**, while leveraging frontend dashboard development skills using **Streamlit** for impactful data visualization.
- Developed python scripts, functions, and class as per business rules, build pipelines and ensured seamless integration within system
- Developed a comprehensive understanding of **macroeconomics**, particularly in the **commodity market including oil, gold,** enabling in development of Time series forecast model for 12 months based on research; estimation was within 5% of market specialist forecast Tools Employed **– *Python (Pycharm, Jupyter notebook), Advance Excel, SQL, Microsoft Office, Bloomberg***

Axtria – Ingenious Insights, Noida, India (*Senior Associate, Advance Analytics)* Apr 2020 – Jul 2022

- Automated employee performance dashboards delivery system with more than 1500 employees using Salesforce and RPA - UI path resulted in 89% reduced effort and no manual intervention
- Forecasted client's performance and budgeting KPIs for planning, recommended forecasts using ARIMA, achieving 97% accuracy QoQ
- Build multiple classifications models to understand the factors responsible for enhancing Physician's response rate to pharmaceutical sales reps detailing: Tools Employed **– *Python, R, Advance Excel, PowerBI, Salesforce (CRM), UI-Path, SQL, AWS, Microsoft Office***

Cognizant Technology Solutions, Gurugram, India (*Project Associate, Analytics & Data Science* Jul 2017 – Mar 2020

- Performed exploratory data analysis and quantitative descriptive statistics on pharmaceutical sales data, generated performance KPIs optimizing territory allocations reducing backlogs by 14%
- Developed stored procedures/Scripts to perform ETL on large SQL datasets, optimized process resulted in 45% processing time reduction
- Built prediction models with segmentation and classification using random forest, XGBoost, logistic regression to analyze patient's with high-risk Diabetes; Tools Employed **– *R, Python, Advance Excel, PowerBI, SQL, Microsoft Office***

ACADEMIC & PROFESSIONAL PROJECTS

Deep Neural Network for Image Binary Classification

- Build and trained a deep L-layer neural network, and applied it to supervised learning
- Initialized parameters, performed Forward propagation, cost computation function, Backward propagation, & Update parameters
- Compared the results of L-layer NN with Logistic regression. 4-NN outperformed Logistic regression with 80% test accuracy Vs 70%

HCC Gaps in Coding ML Classification

- Built classification model to classify patients having Diabetes with Chronic Complications (HCC18)
- Applied techniques like Linear Regression, Logistic Regression, Random-forest, XGBoost, SVM, and Exploratory Data Analysis (EDA)
- Achieved an Increase in revenue by 2.6% /Y as medical claims gaps were minimized due to erroneous medical coding.

LEADERSHIP EXPERIENCE

- **Club Code.exe UTD - Technical Head**. Leading team of 10, responsible for creating content, organizing bootcamps on R, SQL & Statistics etc
- **Data Science Club UTD – Technical Officer.** Responsible for building content of Machine Learning algorithms & guiding member to build projects on classification problems
- Awarded Bravos for - Excellent Performance, Innovation, and Cross functional teamwork at Axtria
- Awarded Milestone Achiever Award (Cognizant) in 2019 for exhaustive process implementation and collaborative leadership
- Pioneered onboarding Jupyter notebooks, mentored more than 20 employees in 6 months, consists of detailed explanation of project and code documentations for text analytics and Business Process Model and Notation

Eligibility: Eligible to work in the US for internships and full time for up to 36 months