**RECHITA SINGH**

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**EDUCATION**

**University of Texas at Dallas** May 2024

*M.S., Concentration in Business Analytics – Data Science, ML;* ***GPA 3.9/4.0***

**University of Delhi,** Delhi *Master of Science,* ***Operational Research*** May 2017

**University of Delhi,** Delhi *Bachelor of Science,* ***Statistics (Honors)*** May 2015

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**SKILLS**

**Programming Languages:** •Python • R • SQL • SAS • SPSS

**Statistical/Learning Algorithms**: • Regression techniques • Logistic • Clustering Analysis • Quantitative Analysis • Statistics – Inferential, Predictive, Prescriptive, Experimentation •Optimization techniques – Non-Linear Programming, Convex Optimization • Decision Tree • Random Forest • SVM • XGBoost • KNN • PCA • Data Mining • A/B Testing • Hadoop

**ML Frameworks/Others:** •Keras • Tensorflow •Pytorch •Tableu • H2O •LLM •NLP • AWS •AI •Deep Learning •Hugging face • Github • CI/CD pipeline •MLops •Agile process • Numpy • Pandas• Scikit-learn, • Streamlit •Bloomberg •MS Office

**PROFESSIONAL EXPERIENCE** May 2023 – Jul 2023

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

* Utilized **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 as per business rules, build pipelines and ensured seamless integration within system, added 8 new features in the existing structure facilitating analysis of price on various scenarios with few clicks with minimal guidance
* Developed and Integrated logger management system for error detection, **reduced man-hours efforts from 3 hrs to 5 mins**
* Acquired specific knowledge in global macroeconomics, with a focus on commodity markets (oil, gold, reserve), through Bloomberg training to enhance informed financial market analysis

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

* **Successfully managed ML/AI** projects for US healthcare clientsincludes providing ML solutions, building pipelines, automating & optimizing analysis delivery system using Python, SQL, AWS, RPA (UI Path), **reducing manual effort by ~90%**
* Gathered new requirements into a comprehensive database system, **demonstrated exceptional communication skills to bridge remote work challenges during the pandemic**, resulting in client commendation, and a well-deserved mid-cycle bonus
* Integrated MLops and CI/CD into data analysis, cutting model development time by 50%, streamlined processes for a 70% efficiency boost, presenting insights to clients, showcasing the seamless integration of MLOps principles.
* Employed ML techniques like SVM, RF, NN to understand the factors influencing physician responses by pharmaceutical sales reps, resulting in a ~25% increase in engagement and a maximum of 20% revenue boost in certain regions.

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

* Implemented ML techniques in healthcare, leading to a 20% reduction in patient readmission rates through predictive modelling and personalized treatment recommendations
* Performed **exploratory data analysis, goal setting, forecasting 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 large datasets**, optimized process resulted in 65% processing time reduction and 0 manual efforts.
* Built various prediction models using Machine Learning techniques including segmentation, classification; one such instance - to analyze identify the patients with high-risk Diabetes, model prediction results in ~92% correct identification for that year

**ACADEMIC & PROFESSIONAL PROJECTS**

* **Spam Detection:** Successfully implemented a Spam Detection model using TF-IDF Vectorization and Feature Engineering, build multiple pipelines, resulting in 99% precision and 94% recall, with the final model based on Pipeline3.
* **HCC Gaps in Coding ML Classification:** Developed a classification model to minimize medical claims gaps, resulting in a 2.6% increase in revenue and leading to a 20% reduction in patient readmission rates
* **Loan Approval – Classification:** Built classification models GBM (H2O.ai) & LightGBM. LightGBM as final model with 84.4% final AUC score on test set

**LEADERSHIP EXPERIENCE** & **HONORS**

* **Technical Head**, Club Code.exe UTD: Led a team of 10, presented & delivered boot camps on Python, R, SQL, and Statistics.
* **Technical Officer**, Data Science Club UTD: Built content on Machine Learning algorithms, guided members in ML topics
* Awarded **Competitive Scholarship** given to Top 5% of current students (Manju and Dr. Pradeep Kumar Fellowship)
* Awarded multiple ‘In Organization’ awards for Excellent Performance, Innovation given to 2% performers at Axtria each cycle

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