

RECHITA SINGH

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EDUCATION

University of Texas at Dallas

May 2024

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

ML Coursework: Applied Deep Learning, Applied NLP, Applied Machine Learning, Advanced Statistics for Data Science

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

May 2017

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

May 2015

SKILLS

Programming Languages: •Python • R • SAS • Lua LaTeX;

Statistical/Learning Algorithms: • Neural networks – Deep Learning, CNN • NLP • Regression techniques • 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 • H2O • OpenCV • AWS • Salesforce (CRM) • SQL • Git • PowerBI • Timeseries forecasting – ARIMA • 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
- Developed and Integrated logger management system for error detection, reduced man-hours efforts from 3 hrs to 5 mins
- Acquired specialized 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 clients projects in the US healthcare domain including automating employee performance dashboards for 1500+ employees using Python, Salesforce, and 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
- Achieved 97% accuracy in forecasting client performance and budgeting KPIs–time series models, facilitating precise planning
- Employed Machine Learning techniques 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 advanced data analytics techniques in healthcare, leading to a 20% reduction in patient readmission rates through predictive modelling and personalized treatment recommendations
- 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 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

- Deep Neural Network for Image Binary Classification:** Built and trained a deep L-layer neural network, achieving 80% test accuracy compared to 70% with logistic regression.
- 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 (Academic):** 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 and 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