

# RAHUL AGARWAL

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## EDUCATION

**UNIVERSITY OF MINNESOTA, Minneapolis, MN | Carlson School of Management**

**Master of Science in Business Analytics | CGPA: 4.0**

August 2022

*Coursework: Predictive Analytics, Exploratory Data Analytics, Causal Inference, Big Data Analytics*

**BITS PILANI HYDERABAD CAMPUS, Hyderabad, Telangana, India**

Bachelor of Engineering (Honors) – Electronics and Electrical Engineering

August 2018

*Coursework: Data Structures & Algorithms, Statistics, Optimization, Data Management Systems*

## EXPERIENCE

**AI DOUBLEDOT | COGNIREL TECHNOLOGIES, Bengaluru, India**

*Building AI Solutions for business' data problems*

**Machine Learning Engineer**

December 2019 - June 2020

*Ideated and Developed Java Error Classifier for Education Platform | Python | Tensorflow | Spacy*

- Coordinated with business stakeholders and engineering teams, to develop an RNN based classifier, giving relevant prompts with an accuracy of 97% to help 50K+ students learn java language
- *Knowledge Graph-Based Question Answering Bot* using NLP framework | Python | Neo4j | Tensorflow
- Prototyped scalable chatbots for education, matrimony and car trade businesses using web-scraping, semantic segmentation and RNNs, improving customer service for 3+ clients

**INDUS VALLEY PARTNERS, Noida, India**

*Providing Technology products to Fund Managers managing \$3.6T+ assets*

**Associate Software Engineer**

June 2018 - November 2019

*Reconciliation Software Development | C# | Javascript | React | SQL*

- Led data migration of multiple clients(150M+ records) from different platforms (SQL, MySQL) to single in-house SQL server for multi-tenant patch; saving storage costs for small business clients
- Leveraged structured event handling in Javascript, multithreading in C# and SQL query optimizations, enhancing performance of rendering the reconciliations dashboard by 40%
- Led a team of 3 which ideated surrogate architecture to combine repetitive month-end jobs into regular reconciliation process, saving database space by 75% and staff effort by 34%
- Spearheaded development of an in-house monitoring tool for multi-tenant clients, streamlining monitoring of reconciliation jobs for the platform teams, using React and C#

**MENTOR GRAPHICS, Noida, India**

**Software Development Intern**

July 2017 - December 2017

- Programmed a code analysis tool for detecting potential algorithmic and logical issues in digital chip designs, using graph traversal in C++; initiated and implemented an auto-fix feature

## DATA SCIENCE PROJECTS

- Built an **ensemble model** consisting of CNN, LightGBM and Naive Bayes to predict customer transactions from kaggle competition data, matching top 50 scores with an AUC of 0.923
- Built a **sentiment analysis** model for a workforce optimization company utilizing 57K voice calls data with XGBoost; demonstrating value of voice features along with textual parsing
- Presented insights into customers segments to an airline, supporting membership marketing campaigns, involving 3M+ PNR numbers by employing exploratory analysis using KPrototype clustering & PCA
- Researched song features such as valence, tempo and genre to quantify their impact on streaming numbers, performing **multivariate linear regression** analysis on 1M+ songs
- Performed **A/B testing** to measure the causal effect of online advertising for a video service provider, with respect to the frequency and the websites the ads were played on

## SKILLS

- **Tools:** Python(Pandas, Numpy, Scikit-Learn), R, C++, C#, SQL, JS, React, Neo4j
- **Techniques:** Machine Learning, NLP, Exploratory Data Analytics, Data Structures & Algorithms