<div align="center">**WRITE UP**</div>

I worked in **"The Wine Group",** in a **Supply Chain** domain, where I have built **Univariate** and **Multivariate Time Series Forecasting** models using **R language,** ARIMA, LSTM, Prophet, VAR, ETS, Neural Network, for predicting monthly and weekly sales. Performed Feature Selection and Exploratory Data Analysis (EDA), to **classify wine** as **Red/White or determine** their **quality,** evaluated via ROC-AUC metrics, using multinomial Logistic Regression, SVM and Random Forest models, along with creating **NLP chatbot** for internal and B2B communications, with additional capabilities like- reporting, data analytics, demand planning, predictive analytics, recommendation schedules and order placement, and deployed collective model on AWS EC2 cloud, with S3 storage, using Python, Flask containerization.

During my work experience at **"California State University, East Bay"**, I have analyzed data to identify **student course success**, by selecting features, optimizing classifiers, mining data, processing data, and doing ad-hoc analyses. I have extensively worked in **NLP**, by building and deploying various ML models on AWS Sagemaker platform likewise- **Plagiarism detection** model- for inspecting quality of assignment, **Adaptive Question Answering platform**- where, questions were answered level-wise, **Early Warning system**- to increase graduation rate, retention rate for students and new teachers, using Dimensionality Reduction, Clustering, and Supervised Learning techniques, based upon various factors like- ethnicity, major, department etc. Communicated the findings about students and CSUEB's data, to senior stakeholders within the organization, by **developing BI dashboards**, on Tableau and other visualization libraries.

In **"Bata India Ltd."**, I have worked in the **Retail** domain. BATA is having their own e-commerce website and POS system for selling retail items such as as- shoes and other clothing items across India and its neighboring countries. There were various tasks I performed over there, e.g., **Elevated purchase trends** amongst customers, by displaying them what could go well with what they are purchasing, based upon the history of their own and other customers purchased items, using **Collaborative** and **content-based** recommenders. **Classified user reviews** on the website as fake or real, using Sentiment Classification in NLP. Performed **Product Clustering**, **Customer Segmentation**, **A/B Testing, Market Basket Analysis**, for marketing strategies on the website, by Collecting data from social media websites, using Random Forest Regression. Designed ML pipelines, and deployed model on AWS EC2 using S3 storage, by collaborating with engineering and database teams.

During my tenure at **"Bharti Airtel Ltd."**, I have an extensive range of responsibilities including bulk data processing for application users and built various **services** as part of **Airtel Payment Bank System** likewise **performing POC, sending email, push** and **in-app notifications,** by **recommending** latest **offers**, based on customer interests. I have also participated in collecting, understanding the business requirements, by working along with cross-functional teams and translating their requirements to technical solutions. Used **Spark** and **Hadoop**, to prepare **complex datasets**, generated from social media, third party companies and company's own data in variants of relational and NOSQL databases, and performed SQL queries and procedures to retrieve data from PostgreSQL database.

In my past, I began with a bachelor's degree in computer science from "**Rajasthan Technical University**". I followed this with a master's degree in Computer Science from "**California State University, East Bay**". I attribute my success as a Data Scientist in large part to this extensive and in-depth education and working experience in the real-world scenarios of these variants of industries. I believe my personality has also played a major role in my ability to succeed in this career. Extremely analytical, data-oriented, and have good adaptability skills in learning new technologies.

Regards,

Richa Khagwal