

KR Harsha

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• Data Scientist / Machine Learning Engineer/Generative AI Engineer •

Data Scientist with over 3 years of hands-on experience in building data-driven solutions, backed by a total of around 5+ years in IT. Strong foundation in ETL, Python, Statistics, Machine Learning, SQL, Deep Learning, Power BI, and Generative AI. Proven expertise in delivering scalable ML solutions across Banking, HR, and Insurance domains.

KEY SKILLS

~ Data Science

~ Generative AI

~ Machine Learning

~ Python

~Explorative Data Analysis

~ SQL

~ Statistics

~ETL

~Datawarehousing

~Deep Learning(CNN)

~PowerBI

~LangChain Framework

~RAG Models

PROFILE SUMMARY

- **Data Scientist** with around **3 years of experience** in designing and implementing **data-driven solutions** across **Banking, HR, and Insurance domains**.
- Expertise in **Supervised and Unsupervised Learning**, including **Regression, Classification, Clustering**.
- Skilled in **Feature Engineering, Model Optimization, and Hyperparameter Tuning** to improve model accuracy and performance.
- Strong knowledge of **Deep Learning, Computer Vision, and NLP** using **TensorFlow, Keras, and PyTorch**.
- Proficient in **Python, SQL, NumPy, Pandas, Scikit-Learn**, and data visualization tools like **Matplotlib, Seaborn, and Plotly**.
- Hands-on experience with **ETL pipelines, Data Warehousing** for efficient data handling.
- Expertise in **model deployment** using **Flask, Streamlit** etc.
- Understanding of **MLOps** for scalable ML model deployment.
- Experience in **building predictive analytics, recommendation systems** etc.
- Proficient in **Statistical Analysis, and Hypothesis Testing** for data-driven decision-making.
- Passionate about **solving real-world business problems** through **data science, AI, and machine learning innovations**.
- Strong ability to **communicate insights and recommendations** through compelling **data storytelling and dashboards (Tableau, Power BI, Streamlit)**.
- Strong knowledge of **Generative AI**, including **langchain framework, RAG Models** for AI-driven content generation and automation.

OPERATING SYSTEMS

: Windows 10,11,Linux,Mac

LANGUAGES

: Python , SQL

DATA BASE

: Oracle,SSMS,Teradata SQL Assistant,Azure Synapse

TECHNOLOGIES

: Data Science,Machine Learning,Generative AI

TOOLS

: Jupyter,VS Code,Azure tools

VISUALIZATION

: Power BI & Tableau

ORGANISATIONAL EXPERIENCE

Since December 2022

BlueRoad Technologies/ Junior Data Scientist

Sept'21-Nov'2022

Cognizant Technology Solutions/Associate Projects

Aug'19 – Aug'21

ChrisTech Technologies/ETL Tester

PROJECTS UNDERTAKEN

Client: Alorica, USA
Designation: Data Scientist
Team Size: 3
Environment: Python, Excel, jupyter notebook, pandas, numpy, scikit learn, flask etc.
Duration: Nov'24-Till now

Description: At Alorica, a leading customer experience and BPO services provider, the project focused on predicting new customer bookings for one of their hospitality clients by leveraging historical booking data. The goal was to build a robust machine learning solution to help identify potential customers likely to book rooms, thereby supporting the client's customer acquisition and retention strategies.

- Role:**
- Cleaned and preprocessed large datasets, handling missing values using appropriate **imputation techniques**.
 - Converted categorical variables using **one-hot encoding** and **label encoding**; applied **standardization and normalization** to numerical features.
 - Detected and treated outliers using **IQR** and **Z-score** methods to enhance model stability.
 - Engineered new features including **booking frequency**, **seasonal patterns**, and **customer retention rate** to boost model accuracy.
 - Developed and optimized a **Logistic Regression** model; experimented with **Random Forest** and **XGBoost** for performance benchmarking.
 - Applied **k-fold cross-validation** to ensure the model generalized well on unseen data.
 - Achieved high performance with **Recall: 85.32%**, **Precision: 86%**, and a balanced **F1-score**.
 - Presented actionable insights to improve the client's **customer targeting** and **marketing strategy**.
 - Assisted in **Flask-based model deployment** for real-time customer booking prediction.

Client: Al Rajhi Bank, Saudi Arabia
Designation: Data Scientist
Team Size: 3
Environment: Python, PowerBI, SQL, Jupyter Notebook, Scikit learn etc.
Duration: Mar'23-Aug'24

Description: The project aimed to strengthen workforce stability and enhance revenue forecasting capabilities at AlRajhi Bank through the implementation of advanced predictive analytics. Machine learning techniques were utilized to support proactive HR management and strategic financial planning within the retail banking segment.

- Role:**
- Analyzed business requirements to develop predictive models aligned with banking operations and strategic goals.
 - Built an Employee Attrition Model to identify key drivers of staff turnover within banking departments.
 - Developed a Revenue Forecasting Model using Linear Regression to predict income from retail banking products.
 - Conducted Exploratory Data Analysis (EDA) to uncover trends and correlations in employee and financial data.
 - Cleaned and processed large datasets using Python and SQL (Oracle Database) for accurate model input.
 - Applied feature engineering techniques to enhance model accuracy and interpretability.
 - Created interactive dashboards in Power BI for visualizing attrition risks and revenue projections.
 - Evaluated model performance using metrics such as R-squared, Mean Absolute Error (MAE), and Root Mean Squared Error (RMSE).
 - Presented insights to HR and finance stakeholders, supporting data-driven decisions in workforce planning and revenue optimization.
 - Contributed to improving operational efficiency and long-term forecasting capabilities within the bank.

ACADEMIC DETAILS

2018 Master of Science in Information Engineering and Computer Science, Rhein-Waal University, Germany.
2011 BTech (Computer Science) from CVR College of Engineering, JNTU University (in 2011), Hyderabad, India