

# RASHMITA KARAK

## Data Scientist

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Mumbai, India

RashmitaK



## PROFESSIONAL EXPERIENCE

### Senior Data Scientist(R&D)

#### Tata Consultancy Services

May 2022 – Ongoing

Mumbai, India

##### Telecommunication

- Leading a team of 4 members, integrating Time series Forecasting, including Hyper parameter tuning using Grid search, Randomized Search and Optuna, Incremental Learning and One Global Model using XGBoost and Light Gradient Boosting Machine.
- Mentored associates in applying Structured Thinking with advanced EDA for interactive story-telling.
- Integrated Alarm Dust Management process (Parent Child bundle creation, Generating Association Rules using Fpgrowth and Apriori, Superset Creation and ML Bundle creation) into a module.
- Implemented Rule Detection in Alarm using 3 ML algorithms, removing alarms carrying redundant information, altering out low-priority alarms when higher-priority alarms are present or substituting a set of alarms by some new information.
- Currently implementing Superset Aggregation and Dynamic Flagging in the Alarm Dust Management Module.

Alarm correlation

Timeseries Forecasting

Fault Identification

Rule Discovery

Data Mining

Predictive Modelling

##### ING Bank, Netherlands

- Applied Customer Segmentation using Clustering Algorithm and to find optimal k value, used Elbow Method, thereby improving the product development, customer service immensely.%
- Gained experience in Python, Computer Vision, Machine Learning, and Deep Learning. Practiced TensorFlow, scikit-learn and OpenCV for Deep Learning models.
- Performed Data Visualization and Analysis to find out Customer Churn Rate so that we could get the factors which will affect the output, decreasing Churn Rate by 10 percent. ING saves 1 million Euros because of this Analysis.

Python

Clustering

Plotly

Scikitlearn

##### TCS iON

- Problem solving and Analysis within TCS iON which has a wide range of cloud based solutions encompassing schools, Boards, Professional Institutes, Affiliated Colleges and Universities%
- Designed MVC, JDBC and Implemented customer requirements in Procurement & Inventory Solution of SMB, using JAVA.

Analysis

JAVA

SQL

## SKILLS

Python

NumPy

Pandas

Statsmodel

Scikit-Learn

Plotly

JAVA

SQL

Data Structure

ElasticSearch

Git/GitHub

Linux

Power BI

## EDUCATION

### Masters in Data Science

#### Liverpool John Moore's University

Jan 2020 – Nov 2022 Natural Language Processing

- Currently in process of writing dissertation on SQUAD (Stanford Question Answering Dataset) Analysis using various NLP algorithms and finding the best algorithm according to 2 metrics : exact string match (EM) and F1 score.

### PG Diploma in Data Science

#### IIIT- Bangalore

Jan 2020 – Feb 2022 Specialization in Deep Learning

- Successfully implemented Style Transfer using GAN to scan MRI images for irregularities in brain images.

### Bachelor in Information Technology

#### Asansol Engineering College

August 2012 – Mar 2016

- DBMS, JAVA, SQL

## CERTIFICATION

- Python Gold Badge - Hacker Rank
- Python - Complete Bootcamp - Udemy

## AWARDS

- "STAR OF THE MONTH" Award for execution of German Sprinters which saves ING Netherlands € 1 million per annum.
- "On the Spot" Award for analytical and problem solving skills in Project - iON.