



Data Scientist

PROFESSIONAL EXPERIENCE

Data Scientist Jan '21 - Present
TATA ANALYTICS & INSIGHTS Bengaluru, IN

Analytics & Machine Learning Methodologies

- Conducted extensive research on **anomaly detection** in the energy sector
- Implemented anomaly detection algorithm with root cause analysis

ML Engineer Dec '19 - Dec '20
TATA ANALYTICS & INSIGHTS Bengaluru, IN

SAS to Scala code conversion, End to end deployment

- Responsible for **deploying model**, debug and maintain code changes for Citi Fraud portfolio.
- Built deployment pipeline** for PnL Costco product from scratch from developing the code in scala to deployment on EAP server using Bitbucket, Jenkins and RLM.
- Independent contributor for code conversion** from SAS to scala for PnL Costco product, responsible for handling project timelines and creating project design, resolving source tables ingestion, managing spark configuration issues, building and maintaining parameterized codes and resolving output data mismatch issues.
- Technologies & Software used: Scala, SAS EG, Bitbucket, Jenkins, RLM.**

Data Engineer Jan '19 - Dec '19
TATA ANALYTICS & INSIGHTS Bengaluru, IN

Unit testing and deployment

- Responsible for end to end unit testing and deployment** of ML models data pipeline code changes for Equal Payment Plan (EPP) portfolio for 8 APAC countries.
- Resolving Business issues** with key stakeholders, testing and deployment of updated data engineering codes to ensure no failure for codes in production environment, automating the code execution using Autosys (CA Automation tool) to ensure scheduled execution of codes.
- Technologies & Software used: Python, Pyspark, Autosys, Bitbucket, Jenkins, RLM**

Analytics Consultant Apr '16 - Nov '17
FAIR ISAAC CORPORATION Bengaluru, IN

Application Scorecard development

1.5 years of experience in credit risk modelling for retail lending sectors across the globe and has been working extensively in application scorecard model developments in the South East Asia region and responsible for delivery of key projects in the area of credit risk analytics and IFRS9.

- Affin Bank , AEON Malaysia, TBank Thailand – **Developed end to end custom origination scorecards & expert scorecards for use in acquisition process** in their Personal Finance, Super Bikes, New Car & Used Car portfolio using FICO Model Builder. Experience in understanding the business requirement of client, presenting the analysis & model reports to the key stakeholders.

EDUCATION

Masters in Data Science Mar '19 - Jan '21
Liverpool University, London Bengaluru, IN

CONTACT

+91 9739911122
prashantrahul.iitkgp@gmail.com
Bengaluru, IN
www.github.com/prashant-rahul

SUMMARY

5+ years experienced, meticulous & result-oriented Data Scientist armed with a proven track record of analytical acumen in deploying complex machine learning and statistical modeling algorithms/techniques for identifying patterns and extracting valuable insights. Possesses diverse experience in planning & executing multiple projects and liaising with the key stakeholders to identify & resolve business problem statement and deliver excellent results.

KEY SKILLS

- Machine Learning Methodologies • Data Mining & Analytics
- Predictive & Statistical Modelling • Data Analysis
- Predictive Modelling & Analytics • Programming • Process Improvement
- Team Coordination & Leadership • Debugging

TECHNICAL SKILLS

- Big Data Ecosystem, PySpark, Hive
- Languages: Python
- Database: MySQL
- Statistics/ML: Linear/Logistic Regression, Ensemble Trees, Gradient Boosted trees, Ensemble architectures and models.

- **Course Modules:**
 - Data Analysis in Excel | Analytics Problem Solving | Data Analysis using SQL | Introduction to Python
 - Programming in Python | Python for Data Science | Inferential Statistics | Hypothesis Testing
 - Introduction to Machine Learning and Linear Regression | Logistic Regression | Tree Models

B.Tech (Chemical Engineering) Apr '10 - Apr '14
Indian Institute of Technology, Kharagpur Bengaluru, IN

KEY DATA SCIENCE PROJECTS

- **Domain: Research Project | BFSI Application Scorecard development | Tech Stack: Python | Jan '21**
 - Objective: Build an interpretable application scorecard classification algorithm on HomeCredit dataset (Kaggle).
 - Solution: Designed an explainable machine learning model via custom model development framework using tree based models and **chemical engineering based binary distillation column**.
 - Key Achievement: Developed a model with an **AUC score of 0.89, in process for writing a research paper and filing a patent, got AUC higher than all the research papers on this dataset.**
- **Domain: Energy sector | Anomaly detection | Tech Stack: Python | Aug '21**
 - Objective: Identify stable region in a chemical plant via anomaly detection
 - Solution: Designed **autoencoder** based anomaly detection and explained the anomaly using **SHAPely explanation**
 - Key Achievement: Created a model with an **recall of 0.77**
- **Domain: BFSI Application Scorecard development | Tech Stack: Python | Sep'16**
 - Objective: Build an application scorecard for Asia Pacific Bank.
 - Solution: Designed application scorecard using **FICO model builder** via GAM based modelling technique.
 - Key Achievement: Developed a model with **Gini of 0.83**