Ashita Patel

Data Scientist

Experienced and dedicated Data Scientist, offering 3+ years of experience with sound knowledge of statistical modeling techniques and methodologies. Proficient in using statistical packages for analyzing datasets, pre-processing data and creating forecasting frameworks. Adept at receiving and monitoring data from multiple data streams.

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WORK EXPERIENCE

Data Scientist
Tata Consultancy Services

07/2018 - Present

Achievements/Tasks

- Attended internal **Anti-Money Laundering** trainings and sessions. Performed clustering and churn analytics on financial data as part of a POC.
- Knowledgeable with **IFRS9** data and developed an **Asset State Transition Model** that could predict if an asset would either degrade or improve over time using ensemble technique which included **Random Forest** and **Logistic Regression**. Created **Run Monitoring Reports** for the business using IFRS9 data. Basic knowledge of **SOX Compliance;**
- Developed a **chatbot** via Google DialogFlow for various modules of access management pertaining to the issues and processes related to the accesses of various physical and logical resources of TCS associates. Successfully deployed five modules pertaining to access management on a sequential basis;
- Developed an initial **rule-based classifier** that classifies if an input report is either good or bad based on keywords present in the report and necessary combination of keywords are detected in order to help the model classify accurately;
- Developed a **RIGHTS Email categorization** model which uses supervised learning algorithm of **Random Forest** to predict the category of emails received by the application support team and thus revert to the email with a resolution according to the predicted issue category. The class imbalance problem present in the data was addressed implementing over-sampling technique using **SMOTE;**
- Developed an Automation Tool of Manual Penetration Testing using Python. This tool has reduced the time taken for testing applications by 97% and thereby increasing the efficiency of detecting Authorization based vulnerabilities in the applications by 35%.
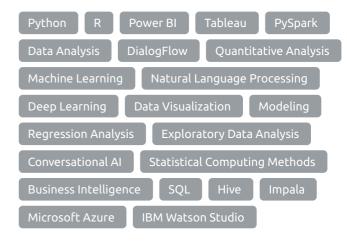
Data Analyst Intern
Tata Consultancy Services

12/2017 - 04/2018

Achievements/Tasks

- Created visually impactful dashboards in **Tableau** for data reporting;
- Extracted, interpreted and analyzed data to identify key metrics and transform raw data into meaningful, actionable information;
- Created two predictive models as a part of POC for our client, one that predicted the ***foreclosure and prepayment*** of loans by studying the data and understanding the factors affecting these.

SKILLS

Python · R · Power BI · Tableau · PySpark · Data Analysis · DialogFlow · Quantitative Analysis · Machine Learning · Natural Language Processing · Deep Learning · Data Visualization · Modeling · Regression Analysis · Exploratory Data Analysis · Conversational AI · Statistical Computing Methods · Business Intelligence · SQL · Hive · Impala · Microsoft Azure · IBM Watson Studio

EDUCATION

Master of Science in Big Data Analytics 8.96
(06/2016 - 05/2018)
St. Xavier's College

Bachelor of Computer Applications 9.26
(07/2013 - 06/2016)
Xavier Institute of Computer Applications

CERTIFICATES

IBM Data Science (01/2022)

Microsoft Certified: Azure AI Engineer Associate (05/2021)

Microsoft Certified: Azure Fundamentals (12/2020)

Data Scientist with Proficiency in R - Edureka (10/2021)

Natural Language Processing with Python - Udemy

Spark and Python for Big Data with Pyspark - Udemy

Building Chatbots using Google DialogFlow - LinkedIn Learning

Python Data Analyst - Udemy

Deployment of Machine Learning Models - Udemy

Regression Analysis and Beginner Statistics - Udemy

Agile Project Management and Delivery - Udemy

INTERESTS

Painting · Calligraphy · Music · Mandala Art