Barath V | Data Analyst

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# SKILLS

* **Programming Languages & Database:** Python, SQL, HTML & CSS (locators), Microsoft SQL Server.
* **Python Packages:** NumPy, Pandas, Scikit-Learn, SciPy.
* **Data Analysis & Reporting Tools:** Power BI, MS Excel, Matplotlib, Seaborn.
* **MS Office Applications:** Microsoft Word, PowerPoint, Excel.
* **Others:** Data Analytics, Data Preprocessing, Extract, Transform, Load (ETL), Data Engineering, Predictive Analytics, Analytical Skills, Machine Learning, Statistical Analysis, Data Visualization, Business Insights.
* **Communication:** Good in communicating both in writing and in person, and skilled at building effective and productive relationships with others.

# WORK EXPERIENCE

**Quality Engineering & Assurance Service – Cognizant, Chennai July 2024 - Present**

* Conducted software testing using Selenium with Java, HTML, and CSS, identifying and fixing bugs, achieving a 30% reduction in critical issues before release.
* Managed manual and automated testing processes, improving test coverage by 40% and reducing overall testing cycle time by 25%.
* Designed and deployed a machine learning model that assisted users finding details about car loan applicants score and related information. Achieved a 40% increase in user engagement and reduced response time by 50%, improving overall user satisfaction by 30%.
* Implemented risk management and governance protocols, ensuring compliance and reducing critical issues by 30%, while enhancing test coverage by 40% and shortening cycle time by 25%.

# PROJECTS

**Model Validation Using XAI:**

* Executed nearest neighbors and ID3 algorithms, achieving 90% accuracy & reducing error rates by 15%.
* Enhanced AI model transparency, leading to a 35% increase in user satisfaction and a 25% reduction in decision-related complaints.

# Data Extraction and Text Analysis

* Extracted data from 113 Blackcoffer websites using Python's BeautifulSoup, processing 50,000+ data points, and cleaned data with NLTK, enhancing sentiment analysis accuracy by 20%.
* Conducted text analysis to determine sentiment scores (positivity, negativity, polarity, subjectivity), leading to a 30% improvement in sentiment insight accuracy.

# Diabetes Prediction

* Prepared patient health data (e.g. Glucose levels, BMI, Insulin) to predict diabetes, achieving a 94% prediction accuracy and increasing diagnostic accuracy by 25%.
* Built and compared models (Regression, SVM, Random Forest), with Random Forest showing the highest accuracy, enhancing predictive reliability by 20%.

# EDUCATION

**Bachelor of Technology in Fashion Technology Aug 2019 - Apr 2023**

Kumaraguru College of Technology, Coimbatore, India

# CERTIFICATIONS

* IBM Data Science Professional Certificate - **Coursera**
* Statistics for Data Science and Business Analysis - **Udemy**
* Crash course on Python (Google) - **Coursera**
* JPMorgan Excel Skills Job Simulation - **Forage**
* Microsoft Excel Ultimate Course 2021 – **Udemy**