**RISHABH B**  
**Phone: +91 9980562148 | Email:** [**rishabh.b1704@gmail.com**](mailto:rishabh.b1704@gmail.com) **| Location: Bengaluru, India |** **Nationality: Indian**

**Summary**

Highly skilled in Python and R programming with advanced expertise in AI and machine learning techniques to deliver data-driven solutions. Proficient in statistical programming, predictive modeling, and data manipulation, with secondary skills in SQL and Java. Passionate about leveraging technology to solve complex problems.

**Skills**

* **Programming Languages:** Python, R, Java, SQL
* **Tools & Technologies:** Excel, Matplotlib, Pandas, Scikit-Learn, Numpy
* **Core Competencies:** Statistical Programming, Data Manipulation, Predictive Modeling, AI, Machine Learning

**Education**

**Bachelor of Computer Applications (BCA) in Data Analytics**  
St. Joseph’s University, Bengaluru, India  
2022 – Present

**Projects**

1. **Virat Kohli Century Analysis:**

* Analyzed the century-making performance of cricketer Virat Kohli across international matches using Python and R.
* Examined century frequency, opposition teams, yearly trends, and venue impacts.
* Evaluated innings, batting positions, average scores, and strike rates.
* Investigated captaincy effects and home vs. away performance, with predictive insights.

1. **Parkinson’s Disease Detection Using Machine Learning:**

* Built a machine learning pipeline to predict Parkinson’s disease using voice-based biomedical features (from the UCI dataset).
* Performed real-world preprocessing, including handling missing values, noise reduction using median filtering, and feature scaling with StandardScaler.
* Trained and evaluated 7 ML models (Logistic Regression, SVM, Random Forest, XGBoost, etc.) using cross-validation and metrics like Accuracy, AUC, MCC, and Brier Score.
* Selected Random Forest as the best model based on validation accuracy; applied SHAP to explain feature importance and model predictions.
* Deployed the model via a Flask-based web application with a Bootstrap-powered UI for real-time disease prediction.
* Implemented custom user input handling, real-time prediction logic, and robust error management for deployment-readiness.

**Research Experience**

**Title: Privacy Preserving in Big Data Analytics**

**Institution: St. Joseph’s University, Bangalore**

**Guide: Aaron D’Lima, Department of Big Data Analytics**

**Duration: [Jan- April, 2024]**

* Conducted a comprehensive literature and technical review of privacy-enhancing techniques in big data, such as differential privacy, homomorphic encryption, federated learning, and blockchain-based data protection.
* Analyzed ethical, regulatory (e.g., GDPR, CCPA), and technological frameworks for privacy-preserving computation across industries like healthcare, finance, and IoT.
* Explored secure computation frameworks (e.g., Intel SGX, federated Spark, SMPC) using platforms like Databricks and library OS systems (e.g., Occlum).
* Proposed a framework that balances data utility and personal privacy in large-scale analytics through anonymization, encryption, and collaborative learning models.
* Prepared a detailed academic paper and presented findings as part of the BCA (Data Analytics) program research requirements.

**Personal Details**

* **Date of Birth:** 17th September 2004
* **Languages Known:** English, Hindi, Kannada
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