RISHABH B

Phone: +91 9980562148 | Email: rishabh.b1704@gmail.com | Location: Bengaluru, India | Nationality: Indian

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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

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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.

2. **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
- **Nationality:** Indian
- **Phone:** +91 9980562148
- **Email:** rishabh.b1704@gmail.com