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Lokesh

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Summary

A passionate and goal-oriented AI & Robotics student with strong expertise in data science, Hands-on experience in developing high-precision machine learning models using advanced techniques and robust data analysis. Eager to apply my expertise in data science and AI to impactful projects.

Education

Dayalbagh Educational Institute   Agra, India
- Bachelor of Vocational (AI & ROBOTICS)   **CGPA - 8.01**
                                                                                              July 2023 - August 2026

Shri Ratan Singh Inter College   Kiraoli,Agra,India
- Intermediate   (**85.6%**)   April 2023

Technical Skills

- **Programming Languages :**   Python, SQL
- **Libraries & Frameworks :**   Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn, Flask
- **Tools & Technologies :**   Power BI, MySQL
- **Platforms :**   Jupyter Notebook, Visual Studio Code, Colab
- **Soft Skills :**   Technical Writing, Team Coordination & Leadership

Projects

Students Performance Prediction Link
Developed and deployed an AI-driven model for student performance prediction.
- Attained an accuracy of **89.57%** for testing students academic performance by developing a machine learning model.
- Ensured data reliability and consistency, handling missing values and encoding categorical variables, enhancing quality by 30% .
- Performed in-depth experimentation with multiple regression algorithms to identify the most suitable algorithm.
- Extracted key determinants of academic success through analysis.

Concrete Compressive Strength Prediction Link
Predicted the compressive strength of concrete using various input features.
- Developed a machine learning model to predict the compressive strength of concrete based on various features.
- Achieved a high prediction accuracy of **94.96%** by Optimized model performance through hyperparameter tuning
- Preprocessed and analyzed real-world datasets to ensure high data quality and feature selection.
- Leveraged advanced methodologies, including cross-validation and hyperparameter tuning to optimize model accuracy and prevent overfitting.

Diamond Price Prediction Link
Created a model that predicts diamond prices based on attributes.
- Enhanced a linear regression model, achieving a **91.12%** increase in prediction accuracy for diamond prices.
- Executed extensive data preprocessing and feature engineering, including normalization and missing value imputation.
- Utilized Python libraries to perform data analysis, visualization, and model assessment for actionable insights.

Certifications

DataScience Masters 2.0 CERTIFICATE   July 2024
- Gained proficiency in Python, Pandas, NumPy, SQL, Statistical Analysis, and Machine Learning

Mathematics-Basics to Advanced for Data Science And GenAI CERTIFICATE   October 2024
- Learned about Statistics, Calculus and Linear Algebra

Awards & Achievements

Buildathon Winner
- Among 100+ participants, Selected as the top 3 out of 15 teams.
- Engineered an AI-powered Sign Language Detection system using Arduino and Teachable Machine as part of a team project.
- Developed an LCD Display based communication system for hearing-impaired individuals.