Kunal Yadav

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Objective

Aspiring Data Analyst with strong foundational skills in Python, SQL, and Power BI. Experienced in analyzing real-world datasets, performing EDA, and building ML models. Passionate about transforming data into actionable insights to support strategic decisions.

Projects

ML Project: Crop Yield Prediction   **Feb 2024 - Apr 2024**
- Developed a Machine Learning model aiming at predicting the crop yield production across globe.
- Project involved data collection, preprocessing, feature extraction, and model training.
- Utilized various ML algorithms and techniques to achieve valuable insights into the correlation between area and average rainfall.
- The assessment of machine learning models' performance revealed different degrees of precision and efficiency in forecasting agricultural yields.
- High accuracy was demonstrated by models including Random Forest, XGBoost, and Bagging Regressor.

EDA Project: Top Women Chess Players   **Aug 2023 - Nov 2023**
- Collected data from tableau of top women chess players according to their rating as per 2020.
- Loaded the data into the analysis environment and ensured that we can access and manipulate the data effectively.
- Addressed missing data by imputing or removing incomplete records.
- Demographics said that the average rating of top chess player is 2456. Concluded the dataset with many statistical outcomes, some of them being average rating, average age, common nationality at the top.

Serenity Bot – AI Mental Health Companion   **Jan 2025 – May 2025**
- Built an AI/ML-based mental health companion web app to predict and support student well-being.
- Collected and preprocessed survey data; performed EDA to identify mental health patterns.
- Trained models like Random Forest and Neural Networks to classify mental health risk levels.
- Developed a user-friendly front end and integrated it with predictive backend logic.

Certificates

Google Data Analytics Professional Certificate   **Apr 2025**
Coursera

IBM Data Science Professional Certificate   **Jan 2025**
Coursera

Technical Skills

Languages: Python, Java, SQL
Data Science: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn
Technologies/Frameworks: HTML, CSS, Git, GitHub, JIRA, Power BI, Tableau, Excel

Education

Lovely Professional University Punjab   **2021 – 2025**
Computer Science and Engineering — CGPA- 6.84   *Jalandhar, Punjab*

Kendriya Vidyalaya Jamnagar, Air Force Station   **2020 – 2021**
Intermediate — Percentage: 81.40%   *Jamnagar, Gujarat*

Kendriya Vidyalaya Ballygunge   **2018 – 2019**
Matriculation — CGPA: 85.6%   *Kolkata, West Bengal*