Project - 1

Data Science Project: Analyze Iris Data

Welcome to the Data Science project on the analysis of the Iris dataset! This easy-level task focuses on performing a simple Exploratory Data Analysis (EDA) and a data science task using the Iris dataset. Below are the details to guide you through the project:

Project Details:

- Domain: Data Science
- Title: Analyze Iris Data
- Level: Easy (Basic)

Project Objectives:

- Utilize the Iris dataset to perform a data science task.
- Conduct a Simple Exploratory Data Analysis (EDA) to gain insights into the dataset.

Tasks to be Completed:

1. Data Science Task:
   - Implement a basic data science task using the Iris dataset.
   - This task aims to predict flowers based on their unique characteristics.
   - Choose and implement an appropriate machine learning algorithm (e.g., Decision Trees, Logistic Regression).
   - Split the dataset into training and testing sets for model evaluation.
   - Train the model on the training set and evaluate its performance on the testing set.
   - Utilize metrics such as accuracy, precision, and recall for model evaluation.

2. Simple Exploratory Data Analysis (EDA):
   - Perform a basic EDA to understand the structure and characteristics of the Iris dataset.
   - Explore the distribution of each feature in the dataset.

- Create visualizations such as histograms, box plots, or scatter plots to highlight relationships between features.

3. Documentation:
   - Document your approach, methodologies, and any challenges faced during the data science task and EDA.
   - Provide clear explanations for the choices made in terms of algorithms, features, and evaluation metrics.
   - Include comments in your code to enhance readability.

Important Dates:

- Last Date for Submission: January 10, 2024
- Coding Contest: January 11, 2024
- Certifications: Certificates will be provided to top performers in the coding contest.

Submission Instructions:

1. Complete all tasks as outlined in the attached Instruction PDF.
2. Ensure your code is well-documented and easy to understand.
3. Zip the entire project file, including all necessary documents and assets.
4. Submit the zipped file through the designated platform.

We encourage you to approach this project with enthusiasm and creativity.

Important Note to Interns: This project serves as the inaugural assignment for Nexus Internship and is designed with an easy difficulty level. Success in this project will contribute positively to your internship profile.Ensure timely project submission.

Deadline :10 Jan, 2024
Coding Contest Date : 11 jan 2024