



{ Code Clause };

# **PROJECT DOCUMENTATION**

## **CODECLAUSE INTERNSHIP**

<b>Project ID - #CC69855</b>
<b>Project Title - Exploratory Data Analysis (EDA) on Iris Dataset</b>
<b>Internship Domain - Data Science Intern</b>
<b>Project Level - Entry Level</b>
<b>Assigned By- CodeClause Internship</b>
<b>Assigned To- Suraj Mishra</b>

<b>Start Date - 01 Jun 2024</b>	<b>End Date - 30 Jun 2024</b>
---------------------------------	-------------------------------

**Project Details-**

**Aim -**

Conduct exploratory data analysis on the famous Iris dataset to understand its characteristics and relationships between features.

**Description-**

Use libraries like Pandas, Matplotlib, and Seaborn to visualize patterns, distributions, and relationships in the Iris dataset.

**Technologies-**

Python, Pandas, Matplotlib, Seaborn  
You can use other technologies that you know.

**What You Learn-**

Gain proficiency in data visualization and basic data manipulation using Pandas.

<b>Project ID - #CC69856</b>
<b>Project Title - Predicting Employee Attrition</b>
<b>Internship Domain - Data Science Intern</b>
<b>Project Level - Intermediate Level</b>
<b>Assigned By- CodeClause Internship</b>
<b>Assigned To- Suraj Mishra</b>

<b>Start Date - 01 Jun 2024</b>	<b>End Date - 30 Jun 2024</b>
---------------------------------	-------------------------------

**Project Details-**

**Aim -**

Develop a model to predict the likelihood of employee attrition in a company.

**Description-**

Utilize HR data to build a classification model that predicts whether an employee is likely to leave the company.

**Technologies-**

Python, Pandas, Scikit-learn.  
You can use other technologies that you know.

**What You Learn-**

Advanced classification techniques, feature engineering for HR analytics.

<b>Project ID - #CC69857</b>
<b>Project Title - Parkinson's Disease Detection</b>
<b>Internship Domain - Data Science Intern</b>
<b>Project Level - Golden Level</b>
<b>Assigned By- CodeClause Internship</b>
<b>Assigned To- Suraj Mishra</b>

<b>Start Date - 01 Jun 2024</b>	<b>End Date - 30 Jun 2024</b>
---------------------------------	-------------------------------

**Project Details-**

**Aim -**

Create a UI where users can input relevant parameters, and the system predicts the likelihood of Parkinson's disease using a machine learning model.

**Description-**

Design a user-friendly interface allowing users to input features like tremors, voice recordings, etc., for accurate disease detection.

**Technologies-**

Python, Flask/Django for UI, Machine Learning for Parkinson's prediction  
You can use other technologies that you know.

**What You Learn-**

UI development, feature engineering for medical data, binary classification.

<b>Project ID - #CC69858</b>
<b>Project Title - Heart Disease Risk Assessment</b>
<b>Internship Domain - Data Science Intern</b>
<b>Project Level - Golden Level</b>
<b>Assigned By- CodeClause Internship</b>
<b>Assigned To- Suraj Mishra</b>

<b>Start Date - 01 Jun 2024</b>	<b>End Date - 30 Jun 2024</b>
---------------------------------	-------------------------------

**Project Details-**

**Aim -**

Build a UI allowing users to input health metrics. Develop a machine learning model to predict the risk of heart disease.

**Description-**

Create a user-friendly interface for inputting health data and implement a model (e.g., Random Forest) for risk assessment.

**Technologies-**

Python, Flask or Streamlit for UI, Scikit-Learn for machine learning  
You can use other technologies that you know.

**What You Learn-**

UI design for health applications, cardiovascular risk factors, classification

## **Instructions-**

1. There are no technology restrictions for project development. You are free to use any technology you are familiar with..
2. Ensure timely submission of projects before the deadlines.
3. There are no restrictions on completing entry-level and intermediate projects. Collab or Jupyter files are accepted.
4. Avoid copying and pasting code. Be original in your submissions.
5. Upon completion, submit your all projects on [app.internship.codeclause.com](https://app.internship.codeclause.com).

## **Eligibility Criteria:**

1. Completion of one project makes you eligible for a certificate.
2. Completion of two projects (entry-level and intermediate) qualifies you for a certificate and Letter of Recommendation (LoR).
3. Completion of two projects (entry-level and intermediate) with one golden project makes you eligible for swags verification.
4. It only eligibles to you for swags verification it doesn't means that you are eligible for swags.
5. There are two golden projects you need to do any of them.
6. There is not technology restrictions for projects.
7. If project found copied then you are eligible for swgas.
8. If golden project needs to be dynamic and proper working.
9. Console based, Collab files, Jupyter files projects are not eligible for swags. Proper Ui is required to eligible for swags.
10. Needs to post video of demo of golden project on LinkedIn and it should includes only the output of project no need to share the code.