Data Science Internship – February 2026

Internship Task Documentation

Overview

This document consolidates all internship tasks in one place.

Please review each task carefully and complete them within the specified timeline.

After completing your tasks, you are required to:

- Post your work in the **Discord group**.
- Submit your final work on the **LMS portal (Mandatory)**.

Ensure that your submission is **well-organized, properly structured, and clearly documented** before submitting

Logic Building Task – 1

Deadline: 13-02-2026 🚨

1. User Login Check

Problem Statement:
Given a username and password, check whether login is successful.

username = "admin"
password = "1234"

Requirements:

- Print "Login Successful" if both username and password match
- Otherwise print "Invalid Credentials"

Real-World Application: Authentication systems

2. Pass / Fail Analyzer

Problem Statement:
Analyze student results.

marks = [45, 78, 90, 33, 60]

Requirements:

- A student passes if marks ≥ 50
- Count the total number of pass students
- Count the total number of fail students
- Print the final result clearly

Real-World Application: Academic evaluation systems

3. Simple Data Cleaner

Problem Statement:
Clean and standardize user names.

names = [" Alice ", "bob", " CHARLIE "]

Requirements:

- Remove extra spaces
- Convert all names to lowercase
- Print the cleaned list

Real-World Application: Data preprocessing before analysis

4. Message Length Analyzer

Problem Statement:
Analyze message sizes.

messages = ["Hi", "Welcome to the platform", "OK"]

Requirements:

- Print the length of each message
- Flag messages longer than 10 characters

Real-World Application: Text filtering and validation systems

5. Error Message Detector

Problem Statement:
Detect error messages from system logs.

logs = ["INFO", "ERROR", "WARNING", "ERROR"]

Requirements:

- Count the number of "ERROR" entries

- Print the total error count

Real-World Application: Monitoring and log analysis systems

Submission Instructions

- Write clean and well-structured Python code
- Use comments wherever necessary
- Submit the assignment on LMS
- Share your GitHub link in the Discord group