Data Science Tasks & Instructions — CodeAlpha

🖥️ Data Science — Internship Overview

This internship program offers practical experience in data science, machine learning, and statistical modeling. CodeAlpha is a leading software development company specializing in data-driven innovation and AI solutions. The internship empowers students to work with tools like Python, R and libraries such as Pandas, Scikit-learn, and TensorFlow. Interns will learn data preprocessing, exploratory data analysis, building predictive models and deploying machine learning solutions. With expert mentorship and hands-on projects, interns will gain the skills needed to solve real-world problems using data science techniques.

🎁 Internship Perks

- Internship Offer Letter
- Completion Certificate (QR Verified)
- Unique ID Certificate
- Letter of Recommendation (based on performance)
- Job Opportunities / Placement Support
- Resume Building Support

📌 Instructions for Interns

1. Share your internship status on **LinkedIn**, tagging **@CodeAlpha**.
2. Complete the **assigned projects** within the mentioned time frame.
3. Upload your complete source code to **GitHub** in a repository named:
   `CodeAlpha_ProjectName`
4. Post a **video explanation** of your project on LinkedIn with GitHub repo link.
5. Submit your completed task using the **Submission Form**.
6. **Complete any 1 out of the 2 tasks** listed below (from your domain).

📱 Data Science Task List

(Complete any 1 of the following tasks)

✅ TASK 1: Car Price Prediction with Machine Learning

- Collect car-related features like **brand goodwill, horsepower, mileage**, etc.
- Train a **regression model** to predict car prices based on these features.
- Handle **data preprocessing, feature engineering, and model evaluation**
- Use Python libraries like **Pandas, Scikit-learn and Matplotlib** for the workflow.
- Understand real-world applications of **machine learning in price prediction**.
- DOWNLOAD DATASET FROM [here](#)

✅ TASK 2: Sales Prediction using Python

- Predict future sales based on factors like **advertising spend, target segment and platform**.
- Prepare data through **cleaning, transformation and feature selection**.
- Use regression or time series models to **forecast sales**.
- Analyze how changes in advertising impact sales outcomes.
- Deliver actionable insights for **business marketing strategies**.
- DOWNLOAD DATASET FROM here

🚨 Important Note

To be eligible for the internship certificate, participants must complete the **first task**.
📌 **Submission of the *first task* is compulsory.** If the first task is not submitted, certificate generation may not be possible.

Please complete and submit your first task carefully using the official submission form.

📤 Submission Details

A submission form will be shared in your respective **WhatsApp group**. You are required to submit your completed task only through that form. Please follow the instructions mentioned in the form carefully to ensure your submission is accepted.

📞 Contact Information

- Website: www.codealpha.tech
- WhatsApp: [+91 8052293611](+91 8052293611)
- Email: services@codealpha.tech