CODING SAMURAI
ESTD. 2023

ABOUT THE COMPANY

Coding Samurai is a pioneering EdTech startup founded in August 2022 with a mission to bridge the gap between academic knowledge and industry expectations, Coding Samurai offers a comprehensive ecosystem of IT services, technical training internships, and consultancy solutions designed to empower students, professionals, and businesses alike.

Our Vision

At Coding Samurai, we envision a future where practical skills and innovation drive success. Our mission is to equip aspiring tech professionals with real-world expertise and help businesses harness the power of technology to thrive in an ever-evolving digital landscape.

What We Do

Technical Internships for Aspiring Professionals. Our flagship technical internship programs are designed to provide hands-on learning experiences that go beyond traditional academics. Through live projects and mentor-led guidance, students develop a deep understanding of industry-relevant tools, technologies, and problem-solving approaches. From web development and data science to machine learning and game development, our diverse offerings cater to a wide array of technical domains, empowering participants to tackle real-world challenges confidently.

IT Services to Transform Businesses

Coding Samurai also offers a suite of IT services, enabling businesses to leverage cutting-edge technology for growth and efficiency. Our services include:

Website Development: Crafting responsive and high-performance websites tailored to business needs.
Mobile App Development: Designing intuitive apps for iOS and Android to enhance customer engagement.
UI/UX Design: Creating seamless user experiences through research-driven designs.
Graphic Design: Delivering compelling visuals that resonate with audiences.
Video Editing: Producing impactful videos to communicate powerful stories.

IT Consultancy Services

Our consultancy solutions empower organizations to streamline operations, improve efficiency, and achieve their business goals. With a focus on innovation, we guide businesses in adopting technologies that create value and drive results.

INSTRUCTIONS FOR SUBMISSIONS

1. Project Submission Form

A project submission form will be shared via email later. In the meantime, continue working diligently on your assigned tasks and projects.

2. Task and Project Requirements

- **Data Science Internship**: Complete **at least two projects** for successful completion of the internship. The projects can be from the same level or different levels, as per your preference.

3. Uploading Work to GitHub

- Create a GitHub repository named **"CODING SAMURAI INTERNSHIP TASK."**
- Upload all completed tasks or projects to this repository.
- The repository link will need to be submitted via the project submission form.
- For UI/UX Design Interns , they can upload their work on dribble or behance or any other design platfroms
- **SAMPLE GITHUB REPOSITORY**- GITHUB DEMONSTRATION

4. Create and Share a Demonstration Video

- Record a video showcasing your work. The video should demonstrate your efforts and contributions to the tasks or projects.
- Post this video on **LinkedIn** to build credibility and serve as proof of your work.
- Tag **Coding Samurai** in your LinkedIn post.
- Include the hashtag **#CodingSamurai** for uniformity and visibility. You may also use additional hashtags like **#Internship** and **#AppDevelopment** for greater reach.

- SAMPLE VIDEO SUBMISSION- Video demonstration

5. Utilize Online Resources

Feel free to use resources such as Google Search, online tutorials, and instructional videos to aid your learning and task completion.

6. Rewards for Outstanding Performance

The best interns will receive:

- A **Letter of Recommendation (LOR).**
- A chance to win a **stipend** for outstanding performance.
- **Feature recognition** on Coding Samurai's official page for exceptional contributions.

DATA SCIENCE

Level 1: Beginner (Basic Concepts and Skills)

Project 1: Simple Data Analytics - Sales Data Analysis

- **Description**: Analyze a small dataset (e.g., sales data of a retail store). Focus on basic descriptive statistics and creating visualizations like bar charts and pie charts.
    - **Skills**: Data cleaning, basic statistics, visualization using tools like Excel or Google Sheets.
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Project 2: Linear Regression on Simple Dataset

- **Description**: Build a linear regression model using a simple dataset (e.g., predicting sales based on advertising spend).
    - **Skills**: Understanding of regression analysis, Python, Scikit-learn library.

Level 2: Intermediate (Slightly More Involved)

Project 3: Data Analytics - Exploratory Data Analysis (EDA) on Titanic Dataset

- **Description**: Perform EDA on the Titanic dataset, examining missing values, distribution of data, and relationships between features. Use basic visualizations like histograms and correlation heatmaps.
    - **Skills**: Data wrangling, data visualization (Seaborn, Matplotlib), basic understanding of statistics.

Project 4: Classification - Logistic Regression on the Titanic Dataset

- **Description**: Build a logistic regression model to predict survival on the Titanic based on passenger features like age, sex, and class.
    - **Skills**: Classification techniques, model evaluation, feature engineering using Python and Scikit-learn.

Level 3: Advanced (Simplified)

Project 5: Time Series Forecasting for Stock Prices

- **Description**: Use historical stock prices to create a time series forecasting model, like ARIMA or LSTM, to predict future prices.
    - **Skills**: Time series analysis, ARIMA, LSTM models, evaluation of forecast accuracy.

Project 6: Sentiment Analysis on Social Media Data

- **Description**: Collect social media data (e.g., tweets) and perform sentiment analysis to determine if the sentiment is positive, negative, or neutral.
    - **Skills**: Natural Language Processing (NLP), sentiment analysis using libraries like NLTK or TextBlob, data cleaning.

REFRENCE LINKS FOR HELP

Level 1: Beginner

Project 1: Simple Data Analytics - Sales Data Analysis

- **Description**: Analyze a small dataset (e.g., sales data of a retail store). Focus on basic descriptive statistics and creating visualizations like bar charts and pie charts.
- **Video Reference**: Data Analytics with Excel - Analyzing Sales Data

Project 2: Linear Regression on Simple Dataset

- **Description**: Build a linear regression model using a simple dataset (e.g., predicting sales based on advertising spend).
- **Video Reference**: Simple Linear Regression in Python

Level 2: Intermediate

Project 3: Data Analytics - Exploratory Data Analysis (EDA) on Titanic Dataset

- **Description**: Perform EDA on the Titanic dataset, examining missing values, distribution of data, and relationships between features. Use basic visualizations like histograms and correlation heatmaps.
- **Video Reference**: Exploratory Data Analysis (EDA) on Titanic Dataset

Project 4: Classification - Logistic Regression on the Titanic Dataset

- **Description**: Build a logistic regression model to predict survival on the Titanic based on passenger features like age, sex, and class.
- **Video Reference**: Logistic Regression on Titanic Dataset

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Level 3: Advanced

Project 5: Time Series Forecasting for Stock Prices

- **Description**: Use historical stock prices to create a time series forecasting model, like ARIMA or LSTM, to predict future prices.
- **Video Reference**: Stock Price Prediction with Time Series and ARIMA

Project 6: Sentiment Analysis on Social Media Data

- **Description**: Collect social media data (e.g., tweets) and perform sentiment analysis to determine if the sentiment is positive, negative, or neutral.
- **Video Reference**: Sentiment Analysis with Python

Purpose of the Internship: Learn and Grow

Autonomy and Responsibility

We respect your independence. It is entirely your decision whether to seek guidance or proceed on your own.

Challenge and Professionalism

The tasks assigned may appear simple or complex. Regardless, we expect you to approach them with professional diligence and dedicate the necessary attention they deserve.

This internship is designed to foster learning, growth, and practical experience.

CONNECT WITH US

1) WEBSITE- www.codingsamurai.in

2) LINKEDIN- Coding Samurai

3) EMAIL- support@codingsamurai.in

4) TELEGRAM- Coding Samurai