Internship Opportunity: Machine Learning/Deep Learning Intern for AI Agent Lab (Live Data Stream Focus)

Job Description:

We are looking for an enthusiastic intern with experience in **Machine Learning (ML), Deep Learning, and Neural Networks** to join our **AI Agent Lab** project. The primary focus will be on creating **live data stream processing notebooks** specifically for **market data** in conjunction with machine learning notebooks.

The AI Agent Lab already provides a seamless interface for managing and querying data, visualizing results, and real-time coding using GPT-3.5 models. We aim to expand the project's capabilities by adding ready-to-use **live data stream processing notebooks** integrated with machine learning models. These will allow users to experiment with **market data** and **ML algorithms** in real-time, providing a streamlined environment for data scientists.

Your Role:

- Develop **multiple sets of notebooks**, with each set consisting of:
    1. A **data processing notebook** focused on handling **live data streams** (e.g., stock prices, financial data, cryptocurrency).
    2. A corresponding **machine learning notebook** that applies various ML models to analyze the processed data, for tasks such as:
        - Predicting market trends (regression)
        - Detecting patterns (clustering, classification)
        - Time-series analysis for financial forecasting.

Each set of notebooks should focus on a different type of data stream or machine learning technique, providing users with ready-to-use templates for various data science tasks.

Responsibilities:

- Create, test, and maintain **multiple sets of notebooks**:
    1. A **data stream processing notebook** for each type of **live market data source**, utilizing the **TA-Lib Python package** for technical analysis.
    2. A **machine learning notebook** for each set, implementing models that analyze the processed data.

Preferred Skills:

- **Experience** with ML and Deep Learning models, particularly in real-time applications like **market data**.
- Proficiency in **Python**, especially libraries like **TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy**, and **TA-Lib**.
- Familiarity with **data streaming** technologies and APIs (e.g., **WebSockets, financial APIs**).
- Strong knowledge of **time-series analysis**, **regression models**, and **NLP** for financial data.
- Understanding of the financial markets and their data is a **plus**.

Internship Details:

- **Position**: Remote Intern (AI Agent Lab - Market Data)

- **Stipend**: ₹10,000 per month
- **Start Date**: October 1, 2024
- **Duration**: 3 months, with potential for extension based on performance
- **Work Mode**: Remote

How to Apply:

Submit your application with examples of past projects, particularly those related to **real-time data processing** or **market data analysis**. Please include your experience with **machine learning** and **deep learning models**, especially those focused on financial or live-streaming data, and your experience using **TA-Lib** for technical analysis.