Imagine a future where your smartphone isn't just smart; it's your dedicated stock trading guru! We've harnessed the power of cutting-edge AI to design an app that predicts stock movements, empowering you to buy and sell with confidence. Dive into our portfolio and explore how we're revolutionizing the world of stock trading.

# Profit Predictors

# System Design

STOCK PREDICTING PURELY FROM NUMERICAL AND NEWS DATA

AI PROGRAM TO PREDICT THE TREND OF A STOCK

SIMPLE GUI WEBSITE TO VIEW MODEL PREDICTIONS

# System Architecture

**the User prompts software with Stock ticker**

**The software trains a AI model to predict the next days price based on historical market data**
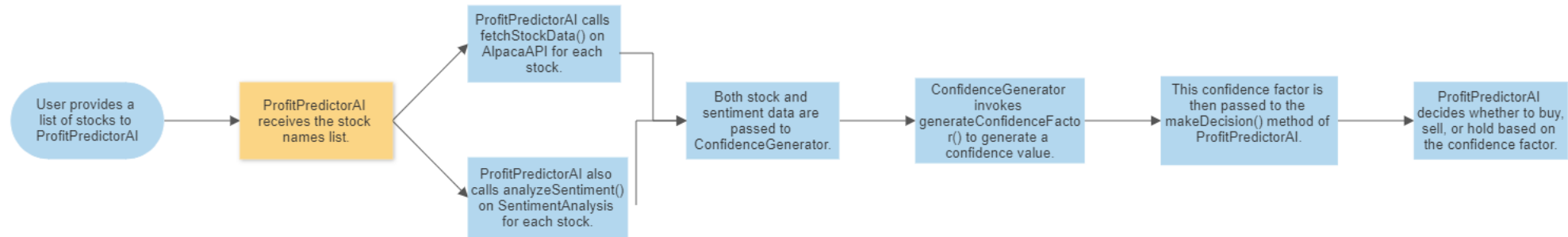
Alpaca trading api

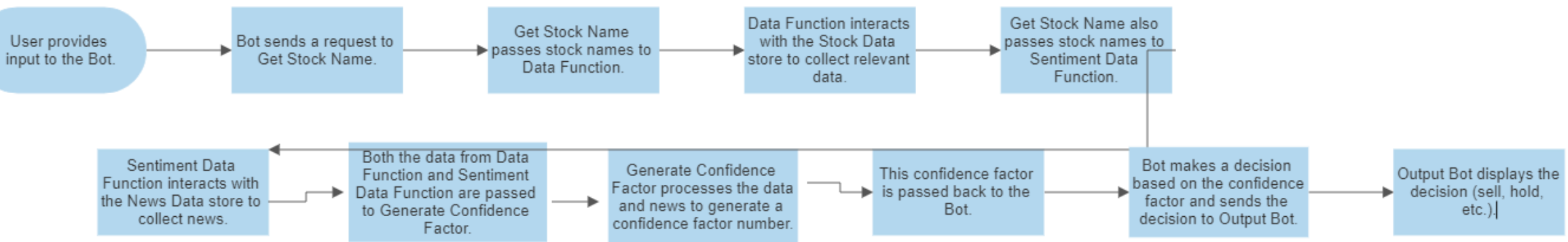**Train another AI model based on news events**

**Combine the predictions to generate a confidence factor on the trend of the stock**

# Component design

# Data flow

- Using python Alpaca API to fetch stock data and news

- Create custom data structures to manipulate data read from the csv

# User Interface

- GUI website

- Front end framework

- Showcases news, stock history, and predicted stock trends viewed by model