Mini Project

Stock Analyzer

B.Tech. CSE (Batch 2019-23)

What is the objective

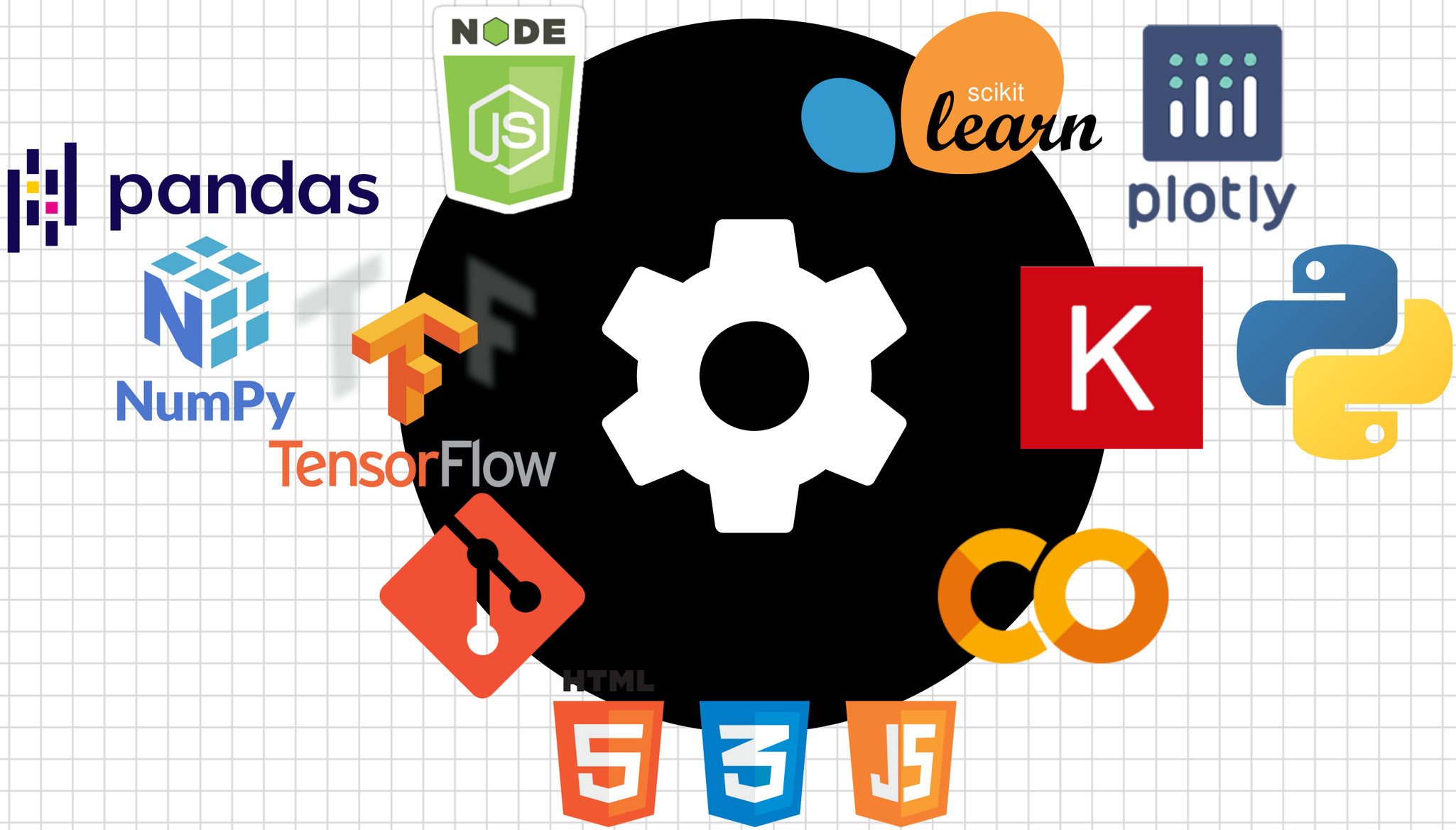
Introducing a web application using **node.js** and some **machine learning** models which will show company information (logo, registered name and description) and stock **plots** based on the stock code given by the user. Also, the ML model will enable the user to get predicted stock prices for the date inputted by the user.

Let’s get started

Significance of the project

Why stock analyzer?

- Stock investments provide one of the highest returns in the market.
- One can visualize share prices and other statistical factors which helps the keen investors carefully decide on which company they want to spend their earnings on.
- Using machine-learning algorithms to predict the upcoming stock prices.

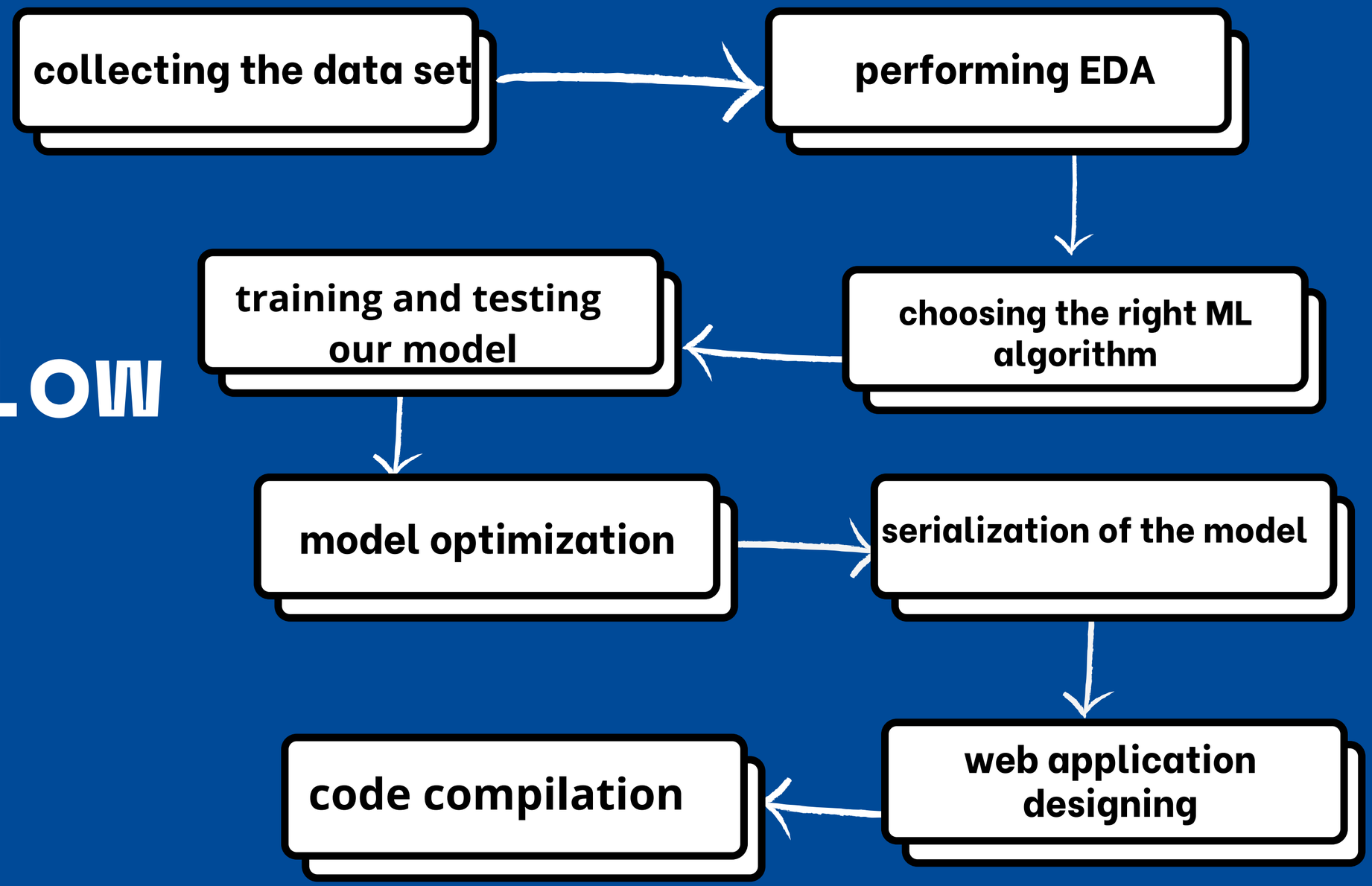

NODE
JS
scikit
learn
plotly
pandas
NumPy
TensorFlow
K
HTML
5
3
JS

Dataset Description

Stock data of companies (Microsoft, Tesla, and Apple) is collected from Kaggle. It includes the information of the Opening price, high, low, volume, and closing price of a trading day.

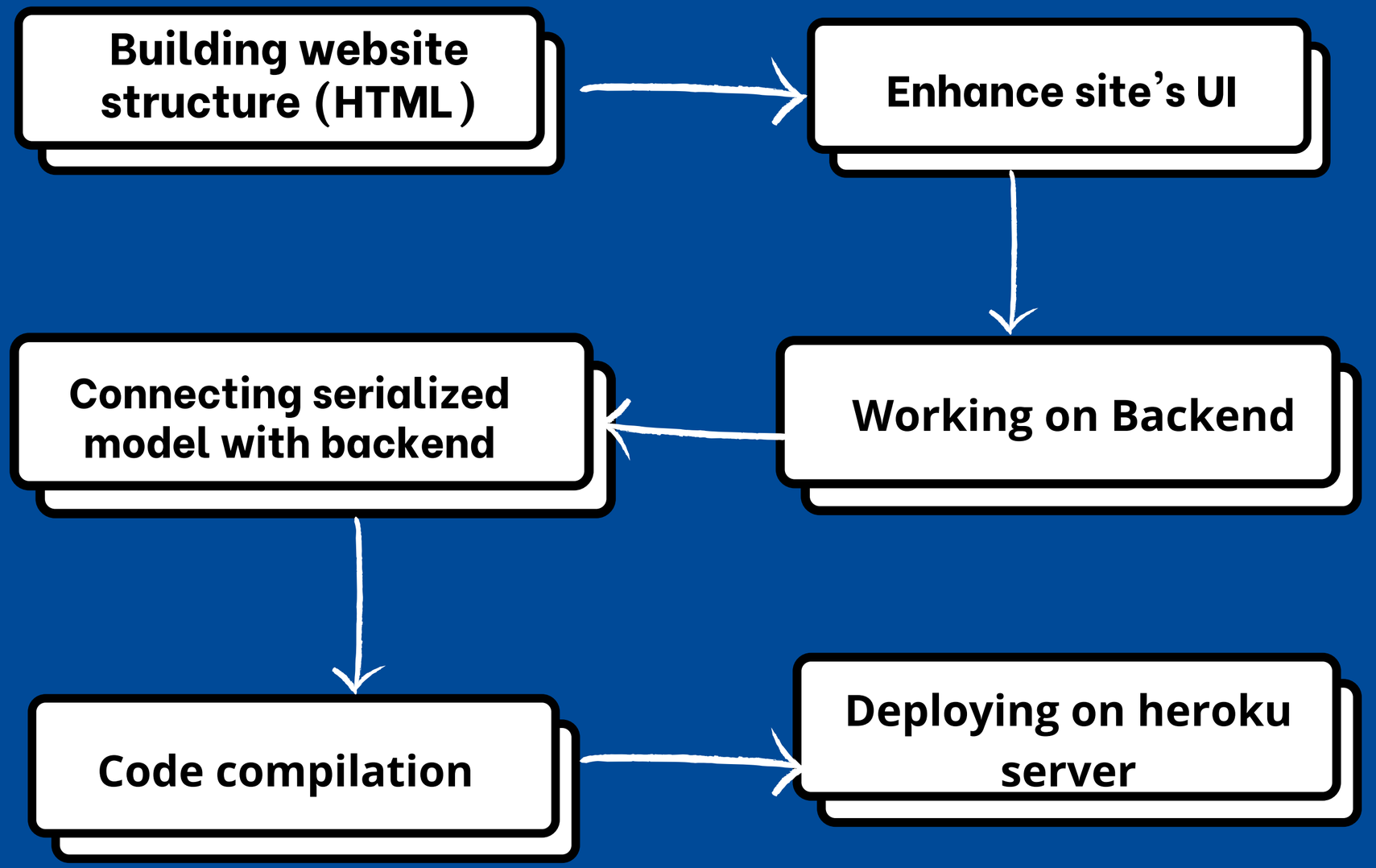
Work-flow

ML Based Model



Work-Flow

Web application



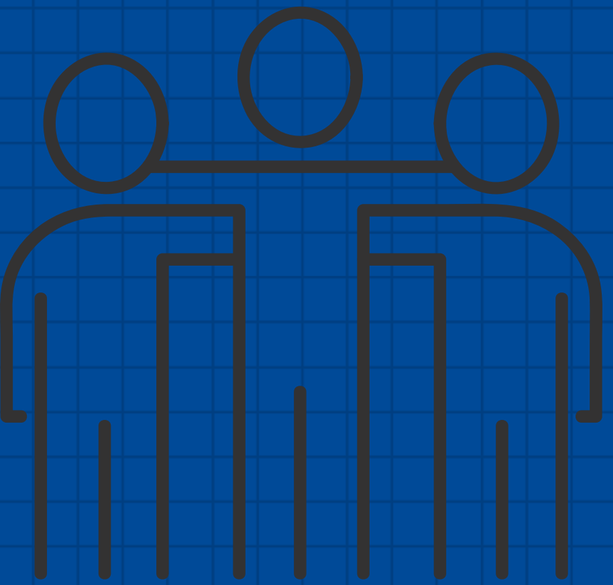
Work Progress

- [x] Exploring the problem and collecting all the necessary tools
- [x] Collecting all the data sets available and concatenating all the data sets to get a full insight of the stocks data
- [x] Gaining all the essential domain knowledge about stocks and how the stock market works.
- [x] Initializing the Github repo , colab notebook and making a separate environment for the development.
- [x] Installing are the necessary libraries like sklearn , numpy , pandas , tensorflow , etc in the environment created already

Future Outcomes

Users can invest in the stock market with risk as small as possible.

Users can check all the previous ups and downs, opening and closing, and many more insights into the stocks they are investing in



Team Roles

Chavi Abrol	Navya Jyoti	Arnav Sharma
Web Developer	ML enthusiast	ML enthusiast

Thank you!