PORTFOLIO

1. **Crypto Price Predictor:**
    We used time-series forecasting and attention mechanisms to predict the future price of bitcoin. In my part, I experimented with two deep learning-based forecasting models: one is recurrent neural network based (bidirectional LSTM) and the other is convolutional neural network based (Conv1D). I also did multivariate forecasting with these models.
    Tools used: TensorFlow, Pandas, Matplotlib
    Project Paper Link: https://drive.google.com/file/d/1jNOBtCL-_hloK15s69tWQWLZ6WDJWb8D/view?usp=sharing
    GitHub Link: https://github.com/bibekyess/AI_practice/blob/main/Killionaire.ipynb

2. **Smart Home Project:**
    We did a security tech project where we detect any intruders and notify the house owner. In my part, I set up hardware (connecting the sensor to raspberry pi using breadboard) and my part was to manage the Node-Red workflow i.e connect each process to Telegram bot for automated response.

    Tools Used: Node-RED
    Demo Video: https://www.youtube.com/watch?v=YhccA0mm2YA
    GitHub Repo: https://github.com/bibekyess/HomeSec

3. **Data Cleanup Project:**
    I contributed to data visualization, and webpage design while my teammate was assigned the task of data pre-processing.

    Tools Used: Python, Plotly, Pandas, Flask, Dash, Heroku
    Project URL: https://kingsmen-data-cleanup.herokuapp.com/
    GitHub Link: https://github.com/bibekyess/data-viz-project

4. **Data Visualization Task:**
    This was a visualization task given to me by one startup before hiring me as an intern in Winter 2022.

    Tools Used: D3.js, Colab (for data preprocessing), Flask, Heroku
    Link: https://bisonai-task.herokuapp.com/
    GitHub Repo: https://github.com/bibekyess/Bisonai-Assignment