US Stock Market Analysis Tool

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Topic and point of view

- Different topics considered

- Why did we choose the analysis of the U.S Stock Market?

- Big Data is essential to this analysis

- The goal was to provide an educational tool for a wide range of users

- Other tools are focused on predictions rather than education

Workload sharing and internal organisation

- Looking for information about the mechanics of the stock market

- Extreme programing group method

- Each one developing a different feature of the software

- How did we split the tasks

Main contributions

```
    Welcome to the US Stock Market Analysis
         Press enter to continue
```

```
Please choose a field of study:
[1] Information about a specific stock | [2] General market
analytics | [3] Historical events | [quit] Quit
Enter your choice:
```

```
Please choose which historical period you want to study:
[1] 9/11 Attacks | [2] 2008 Financial Crisis | [3] Covid |
[b] Back | [quit] Quit
Enter your choice:
```

- Interactive program leads to a user-friendly interface and nice user-experience

- Linked stock market data to historical events

- Make complex data accessible to a wider audience

Personal experience

Gabriel

- learn about the stock market

- code issues

- deepening of pyspark tools

- Future in big data

Alain

- What was the most interesting part for me

- The problem I had the most trouble with

- What are the new things that I learned

Final thoughts

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********** $AAPL - Nasdaq ********************************
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 │  All Time Low: 0.0491 on 08-07-1982      │
 │  All Time High: 182.94 on 04-01-2022     │
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* Last recorded stock value: 142.32 on 12-12-2022

* Best performance in a day: +9.4271 (6.1785%) on 24-02-2022
* Best performance in a month: +0.0635 (23.923%) on 01-2001
* Best performance in a year: +0.1899 (156.1157%) in 1998

Press enter to continue ▌
```

- Achieved goals

- Limits and areas to improve in the software