

Stock Market Analysis Project

Project Description

Objective:

This project aims to create a web application for analyzing the Macedonian Stock Exchange's stock market data. The application will enable users to access historical daily stock data, spanning the last 10 years, for various issuers. With an emphasis on providing buy/sell insights, the application will utilize both technical and fundamental analysis along with machine learning algorithms.

Scope:

The application automates data extraction and processing from the Macedonian Stock Exchange website, ensuring only essential data is retained and formatted for analysis. In the next phases, machine learning models will be integrated to predict potential investment opportunities.

Architecture:

The application is designed using a Pipe and Filter architecture for initial data processing, with filters managing data transformation from raw stock data to structured data ready for database storage and analysis. Machine learning and analytics modules will be developed and added to support users' trading decisions.