

Algorithmic trading

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- The program was developed in C++ language of **C++17** standard using g++ (GNU C++) compiler.
- GUI implementation, based on the **QT** library with API for **C++17**.
- The program provides the ability to:
 - Plot a tabulated function of stock quotes using two interpolation methods.
 - * Newton polynomial of n th degree ($1 \leq n \leq 9$).
 - * Cubic Spline.
 - Plot an approximation (by a polynomial of m th degree ($1 \leq m \leq 20$)) of a tabulated function of stock quotes using the least squares method. The approximation can also be extended to the future to predict the stock price.
- The program GUI contains:
 - Two tabs: Interpolation and Approximation, each with a drawing area.
 - Data manipulation area with buttons to do the following:
 - * Load data (stock quotes) from a CSV-file.
 - * Clear the data.
 - * Reset the drawing area (only up to 5 graphs can be shown simultaneously).
 - * Show some information about the data.
 - * Clear the area with that information.