

## PROJECT TITLE

Stock Returns Graphical User Interface with Python

## COMPANY NAME/ ADDRESS

Ata Yatırım Menkul Kıymetler A.Ş / Emirhan Cad. No:109 K:12 Atakule, Beşiktaş, İstanbul, 34349, Türkiye

## DURATION OF PROJECT

July 10 – September 15 2023

## STUDENT'S NAME/ PROGRAM

Can Ceylan / BSCS – Computer Science and Engineering

## PROJECT OBJECTIVE & EXPECTATIONS

Main objective of the project was to create an easy to use graphical user interface that can be used to compute and visualize statistics related to user specified category of stocks from 'Borsa İstanbul', which is computed through many user specified parameters such as dates, return ratio types, filters and many more.

## OUTCOMES

1. A Python script that can be used to download data through yfinance library and store the required data as a parquet file after handling some necessary computations.
2. A Python script which creates a graphical user interface that can get user inputs and create the necessary grid for the user using the data that was generated by another Python script. This script also checks if the data is up to date, and updates it if it was not.
3. A parquet file that is generated and maintained by the prior 2 Python scripts.