

## **Theme/Title Bachelor Thesis AGREEMENT**

**Student's first name and last name:** Sergiu-Rares Goian

Specialization: Computer Science

Class academic years: 2022-2025

**First name and last name of the scientific advisor:** Bogdan-Eduard-Madalin Mursa

**Thesis domain:** Artificial Intelligence

**Thesis title:** Sentiment and Credibility-Adjusted Stock Price Prediction

### **Bachelor thesis topic description:**

The topic of the Bachelor thesis will be described, minimum 2-3 paragraphs in natural language.

My thesis focuses on developing a user-friendly app to assist beginners in the field of investing and finance. The app will provide users with an overview of the future stock markets trends and offer a safe, practical demo section where they can build their own portfolios using virtual money. This platform will also offer educational tools such as quizzes and AI-driven stock prediction based on text sentiment and credibility analysis.

The main feature of the app is the price prediction model which forecasts prices based on historical patterns and adjusts them according to the sentiment and relevance of news articles. These news articles will be analyzed and assigned a credibility score based on factors such as the source's reliability and syntax correctness, which will influence the weight of the sentiment's impact on price changes.

By integrating AI-based models, this app offers a unique solution that combines theoretical learning with practical experience, offering beginners a risk-free environment to learn how to manage investments without any stress or pressure.

**Date,** 18.03.2025

**Student signature,**

A handwritten signature in black ink, consisting of a stylized, cursive letter 'G' with a horizontal line extending from the top.

**Scientific coordinator signature,**