**Theme/Title Bachelor Thesis AGREEMENT**

**Student’s first name and last name:** \_\_\_\_\_\_\_\_\_Crisan Dragos\_\_\_\_\_\_\_\_\_\_\_\_

Specialization: \_\_\_\_\_\_\_\_Computer Science\_\_\_\_\_\_\_\_\_\_

Class academic years: \_\_\_\_\_\_2021-2024\_\_\_\_\_\_\_

**First name and last name of the scientific advisor:**\_\_\_\_\_Alina -Delia Calin\_\_\_\_\_\_\_\_\_

**Thesis domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Artificial Inteligence\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Thesis title: \_\_\_\_Precision Agriculture: predicting a crop based on enviornment data\_\_\_**

**Bachelor thesis topic description:**

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

The aim of this project is to predict the yield of a crop based on geological and climate data, such as chemical data about the soil the crop was planted in, cuantity of rain, etc. It can be further expanded to also recommend what crop should be planted in the next year or to predict the quality of the crop yield if further data is provided for training.

1. G. Gupta, R. Setia, A. Meena and B. Jaint, "Environment Monitoring System for Agricultural Application using IoT and Predicting Crop Yield using Various Data Mining Techniques," 2020 5th International Conference on Communication and Electronics Systems (ICCES), Coimbatore, India, 2020, pp. 1019-1025, doi: 10.1109/ICCES48766.2020.9138032.

2. A. Suruliandi, G. Mariammal & S.P. Raja (2021) Crop prediction based on soil and environmental characteristics using feature selection techniques, Mathematical and Computer Modelling of Dynamical Systems, 27:1, 117-140, DOI: [10.1080/13873954.2021.1882505](https://doi.org/10.1080/13873954.2021.1882505)

**Date, Student signature,**

**Scientific coordinator signature,**