

## **OPPONENT'S EVALUATION OF THE MASTER'S THESIS**

**Student: GEORGE AMOAKO  
DANQUAH**

**Opponent: Ing. Mgr. Michal Sedláček,  
Ph.D.**

Study program: **Engineering Informatics**  
Study course/Specialization: **Information Technologies**  
Academic year: **2022/2023**

Master's Thesis topic: **Big Data processing methods for environmental management**

### **Evaluation of the thesis:**

The presented thesis is focused on a forecasting model of waste generation production in Ghana using a neural network and a big data processing method. In the practical part, the student focused on the creation of a simulation model and its application in the creation of a forecast of the amount of waste in eight selected cities of the state of Ghana.

The theoretical part of the diploma thesis is processed systematically. From the point of view of the typographic processing of the text, minor typographical deficiencies can be found. Citations of professional literature are mainly from online sources. In the text, especially in the theoretical part of the thesis, there is no clearly visible difference between the quoted text and the original text. The text contains elements of professional terminology.

In the practical part of the masters thesis, the student creates a specific prediction model in the MatLab program and uses a neural network in the processing.

As part of the defense, I recommend that the student present the forecast model created and specifically its use in simulating the forecast of waste generation in the state of Ghana in the near future.

The diploma thesis fulfills the requirements and goals set out when it was submitted. I recommend master thesis for defense with a classification C - good.

### **Overall evaluation of the thesis:**

The Opponent shall grant a mark according to the ECTS classification scale:

A – Excellent, B – Very Good, C – Good, D – Satisfactory, E – Sufficient, F – Insufficient

An “F” grade also means "I do not recommend the thesis for defence."

**I recommend this thesis to be defended and suggest the following evaluation:**

**C - Good**

**In the case of an evaluation grade of “F – Insufficient”, please supply the main shortages and reasons for this assessment.**

Date: 1. 6. 2023

Thesis Opponent's Signature: