RESEARCH PROJECT 2022-2023

Department/Area

Telematics/CompSc

Title/Name

Automatic Code Testing to help student in python programming courses

Abstract/Description

Learning programming is difficult, but learning-by-doing is the best approach.

Beginner programming students may write code that only works properly under certain cirsumstances, or code that is too difficult to follow (Ex. Using too many breaks, continues or unnecessary conditions).

Emerging tools based on artificial intelligence such as ChatGPT, LLaMA or GitHub Copilot can be used to give automatic feedback to students.

The project consists on developing a tool based on AI APIs to analyze python code and generate reports useful for beginner programming students.

Prerequisites

Required	Programming skills in python
Recommended	Previous experience with APIs, mostly LLaMA

Supervisor(s)/Tutor(s)

Name(s)	Rafael Palacios
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Structure

Format	Summer SAPIENS
Workload	
Students	1 or 2