Machine Learning for Programming (Seminar at University of Stuttgart)

Quick Facts
Organizer Jibesh Patra
Examiner Erhard Ploedereder
Course type Seminar
Language English
Kick-off meeting Week of April 8 to April 12, 2019
Course number 40140XXXX
Access Code (ml4p)

Content
This seminar is about recent research on improving software and increasing developer productivity by using machine learning, including deep learning. We will discuss research papers that present novel techniques for improving software reliability and security, such as program analyses to detect bugs, to complete partial code, or to de-obfuscate code, based on machine learning models of code.

In the initial kick-off meeting, each student is assigned a research paper. Each student presents her/his paper during one of the weekly meetings. Moreover, each student prepares a term paper that summarizes the original research paper.

Schedule
When What Where
Week of April 8 to April 12, 2019 Kick-off meeting (mandatory for all participants) TBD
April 23 to July 19, 2019 Weekly meeting with presentations by the participants TBD
May 23, 2019 Term papers due for peer-review ---
June 14, 2019 Reviews due ---
July 1, 2019 Final term papers due ---

Link to Course Website
http://software-lab.org/teaching/summer2019/ml4p/