

Agenda Hackathon

5th International Summer School for Big Data and Machine Learning

Time: August, 17th – 18th 2019

Location: Dresden, von-Gerber-Bau, Bergstr.53, Seminar room: 039

<https://navigator.tu-dresden.de/etplan/ger/00>

Sat. Aug. 17 th	Topic
9:00 - 9:30	Welcome / Registration
9:30 - 10:30	Topic description and group formation
10:30	Coding Session
12:30	Lunch
13:30	Coding Session
16:00	Coffee Break
16:30 – 16:30	Group Discussions
17:00	Coding Session

Sun. Aug. 18 th	Topic
9:00	Coding Session
12:30	Lunch
13:30 – 14:00	Group Discussions
14:00	Coding Session
16:00	Coffee Break
16:30 – 17:30	Group Presentations

Topic Description:

Background: In environmental sciences there are historical geographic maps available, which can be used for analysis. These maps are hand drawn and include fonts indicating e.g. settlements in the maps. The difficulty is to recognize the names in the maps. During the Hackathon, we will investigate and develop a strategy and a model to recognize text-based labels in different fonts, starting from artificial data generated up front to work on sufficient ground truth. The model should be able to recognize the following features:



- Length of string
- Characters in string
- Recognition of full string

As starting point, we will provide sample data and a basic model to start with.