# MechMath Autumn 2019:

**Introduction to Machine Learning using Python** 

## Project1: It has arrived!

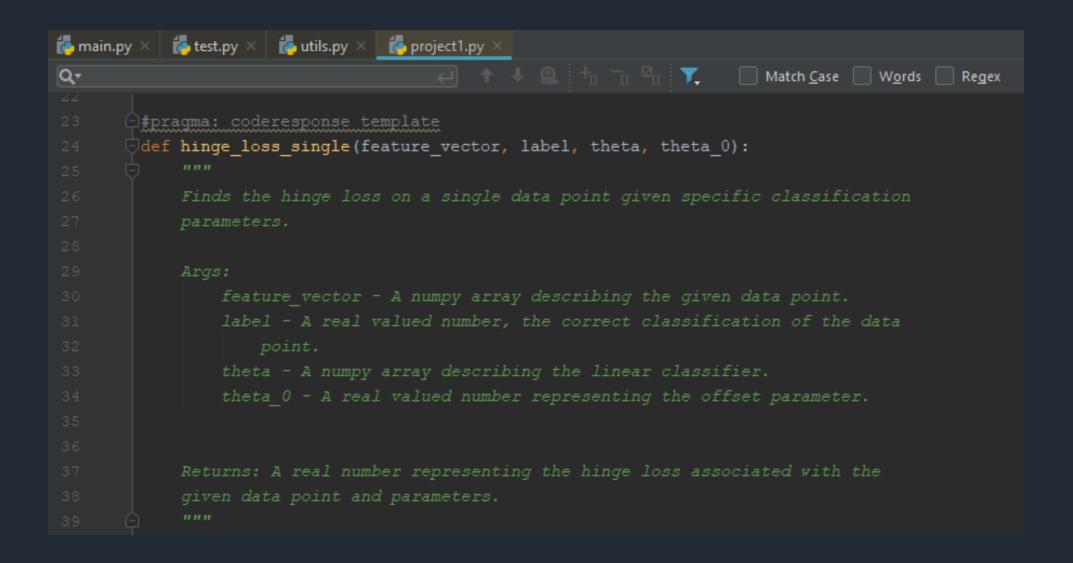
## PROJECT 1



#### Project1: How to start

- Download Project1\_Guideline.pdf from our Slack-channel
- Download Project1 distribution code "resources\_sentiment\_analysis.tar.gz" from our Slack-channel
- Untar (unzip) the code
- Download Project1\_Tasks.pdf from our Slack-channel
- Open main.py, test.py, utils.py, project1.py
- Try to run test.py!
- Try to understand what is going on and how are these files connected

#### Project1: First step with the Hinge Loss function



#### What would you like to get

```
C:\Users\Dell\PycharmProjects\untitled\venv\Scripts\python.exe
PASS Import projectl
PASS Get order
PASS Hinge loss single
PASS Hinge loss full
PASS Perceptron single update
PASS Perceptron
PASS Average perceptron
PASS Pegasos single update
PASS Pegasos
PASS Classify
PASS Classifier accuracy
PASS Bag of words
PASS Bag of words stopwords removed
PASS Extract bow feature vectors
PASS Extract bow feature vectors : correct non binary features
Process finished with exit code 0
```

```
"correct code" (test.py)
```

"correct value" (main.py)

#### Project1: Keep in mind

- **Deadline:** 14:00, 04.12.2019
- Be sure that you untared ("unzipped") all the files to the same directory!
- Other than PyCharm IDE's at your risk.
- It is not obligatory to understand EVERYTHING in the distribution code. But at least try to.
- Correct solutions could be the first pieces of your github portfolio.
- Try to check the "correct value" with your classmates. Feel free to discuss Project1 with the colleagues...
- ...but don't steal their code!

## How to avoid fear of programming ML in Python

JUST DO IT.

## Thank you for attention!

