

CS-EJ3211 Machine Learning with Python

Session 0

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- 1 Course Logistics
- 2 Python
- 3 Using jupyter notebooks

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Teaching staff

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Course info & materials

- Main course page [▶ MyCourses](#)
- Assignments [▶ JupyterHub](#)
- Course book by Alex Jung [▶ Machine Learning: The Basics](#)
- Chat [▶ Slack](#)

Grading

Max 10 points/ round = 60

%	Grade
50-59	1
60-69	2
70-79	3
80-89	4
90-100	5

- Post re-grading requests at Slack #grading-questions or email
- Can ask for extra task to improve the grade

Slack

- Ask specific questions
- Describe what you have tried and what was the result
- Describe error message
- Do not post full solution/ code
- Help other students

Course feedback

- General feedback - at the end of the course.
- Specific feedback for each round MyCourses/Feedback for notebooks. Please, try to give a detailed feedback.

Course logistics - Questions?

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Python programming language

- Machine/Deep Learning, Data Science
- Web development (Django)
- Automation/scripting ("Automate the Boring Stuff with Python")

Using Python

Where to run the code?

- Locally - need to set up environment (Python, Anaconda)
- Using computing services (Jupyter Hub, Google Colab, Kaggle)

How to run the code?

- plain .py file
- IDE (Spider, PyCharm, VS)
- jupyter notebook

Basic Python

Operators

- $+$, $-$, $*$, $/$
- $<$, \leq , $>$, \geq , $==$, $!=$
- $\&$ AND, $|$ OR

Build-in functions

- `print()`
- `len()`
- `sum()`

Python libraries



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Debugging in jupyter notebooks

- read error messages
 - SyntaxError
 - IndentationError
 - NameError
 - IndexError
 - TypeError
- use `print()` to check intermediate outputs
- google error message (Stack Overflow)

Jupyter hub/ notebook - Questions?