

ML Engineering Tutorial

Week 1: Basics of Python, Numpy, Tensorflow
Building a basic model for linear regression.

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Introductory (anonymous) Zoom Poll

Goals / Scope

- Focus: Practical programming! Interactive!
- This week (18.11.)
 - Basics of `Python`, `Numpy`, `Tensorflow`
 - Applying it to `linear regression`
- Next week (25.11.)
 - Using `Datasets and Images` in `Tensorflow`
 - Building a simple `CNN` for `classification`
 - Tips and Tricks

Materials / Methods

- These slides
- An interactive coding notebook in Jupyter/Google Colab
 - We will go through some of it together
 - Solve the basic problems in there
- Lots of Q+A
- Overview of today:
 - ~10min Programming Basics
 - Interactively using Google Colab:
 - 30min Python Basics
 - 30min Numpy
 - the rest: Tensorflow, Regression Model, Q+A

Demo in Terminal

Link to Colab