

Al 1 Kickstart

2025



Syllabus & Materials

Python

Math

Capstone project

Reimplement

Data

TODO

Setup environment

Contents

Syllabus



Duration

Jun 7 - Jul 22

7.5 weeks

2 days / week

Python

Python syntax

Function

Data structures

Loop & expressions

Test & debug

File I/O

OOP

Python project

Project structure

Git

Streamlit

Math

Linear algebra

Matrix operations

Vector space

Calculus

Differentials

Prob & Stats

Distribution

Estimation

Hyp. testing

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Training

Training repo: https://github.com/F-Code-Al-Crew/Training

• Discussion, issues, etc.

Training docs: https://f-code-ai-crew-training.readthedocs.io/en/latest/

- Code snippets
- Implementation

Supplements:

- Python:
 - Goldwasser 2013, Data Structures and Algorithms in Python (available at FPT library)
- Math:
 - Deisenroth 2020, Mathematics for Machine Learning

Materials



Problem sets

Python: GitHub Classroom

Math: Drills exercises

Capstone project



Output

- 1 Familiar with Python syntaxes and operations
- 2 Comprehend basic math for Al
- 3 Ready for data processing, algorithm implementation

Reimplement

Reimplement your train C project in Python

Data

Create an interactive streamlit app based on a given dataset

TODO



Setup environment

Link: https://f-code-ai-crew-training.readthedocs.io/en/latest/misc/env_setup.html

Contacts

Link: https://forms.gle/6fvBjqzfw9QnJQJc8