



# Data Science Mentoring Weekly Agenda



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WAY TO REINVENT YOURSELF

## Meeting Agenda

- ▶ Icebreaking (10m)
- ▶ Micro Learning & Presentations (30m)
- ▶ Project Discussion (40m)

## Teamwork Schedule

Ice-breaking	10m	
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- Personal Questions (Stay at home & Corona, Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- How you're studying, you need personal advice?
- Remember that practice makes perfect.

- What exactly each student does for the team, if they know each other, if they care for each other, if they follow and talk with each other etc.

Micro Learning & Presentations	30m	
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(The problems and subjects in this part, has been prepared especially for you to equip yourself for the interview process and improve your coding skills. To get the most from this part, it's highly recommended to be prepared and present the topics in English. At first, it can be difficult to present in English and you can read from your notes, no problem. We strongly advise you to force yourself to present especially the interview questions in English. However, if you don't feel you can present in English, you can do any part in Turkish, that's no problem too. Please remember; we don't want to put extra pressure to anyone, it's totally up to you how you prepare for this section. The main and only aim of this part is to develop your skills that you need during and after the recruitment process and make you ready for the DS career.)

## Questions & Problems Related to Course Topics

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### 1. Discuss/solve the Python questions below

- [Python Pandas DataFrame, Questions: 6,8,9,10,11,13,15,16,17](#)

### 2. Convert json files into Pandas.DataFrame

- `Json1 = [{'name': 'JOHN', 'age': 27}, {'name': 'HENRY2', 'age': 14}]`
- `Json2 = { 1:{'name': 'vikash', 'age': 27}, 2:{'name': 'Satyam', 'age': 14} }`
- `data = [{'id': 1, 'name': "Cole Volk", 'fitness': {'height': 130, 'weight': 60}}, {'name': "Mose Reg", 'fitness': {'height': 130, 'weight': 60}}, {'id': 2, 'name': 'Faye Raker', 'fitness': {'height': 130, 'weight': 60}}]`

### 3. Draw the graphs below for the given data:

- Data:  
labels = ['UK', 'USA', 'GER', 'JAP', 'FRA']  
age\_men = [40, 35, 45, 53, 28]  
age\_women = [35, 32, 48, 48, 31]

- [Check the graphs here](#)
- [General tutorials about graphs](#)

## Interview Questions Related to Course Topics

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4. Why do we need data visualization?

5. What are differences between Seaborn and Matplotlib?

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Project Discussion	40m	
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- [Data Analysis with Python Project - 1 \(Police Stops in Traffic\)](#)
- [An Analysis of the Fatal Police Shootings in the US](#)