#### "Graduate Café" Discussion Series







# Using GPT (Generative Pre-trained Transformer) for Data Analysis

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#### Outline

- 1. How neural networks work
- 2. Al creating Al
- 3. Explore GPTs
- 4. Data Analyst
- 5. Open practice
- 6. Future of Al
- 7. Q&A

#### 1. How neural networks work

**Basic Structure**: A neural network consists of layers of interconnected "neurons" or nodes. These layers typically include:

- Input layer: Receives the initial data (e.g., pixel values of an image).
- **Hidden layers**: Perform intermediate computations. They transform input data into something more abstract.
- Output layer: Provides the final result, such as classifying an image or predicting a value.
- https://www.youtube.com/watch?v=aircAruvnKk
- https://openai.com/chatgpt/overview/



# 2. Al creating Al

• E-mail responder

### 3. Explore GPTs

- Logo creator
- YouTube video summarizer
- Code capilot
- Image generator
- Web browsing
- O1-preview (better at reasoning)

### 4. Data analyst

- Auto dataset
- Descriptive statistics
- Creating a chart
- Regression
- OLS assumptions
- Nonlinear regressions

## Open practice

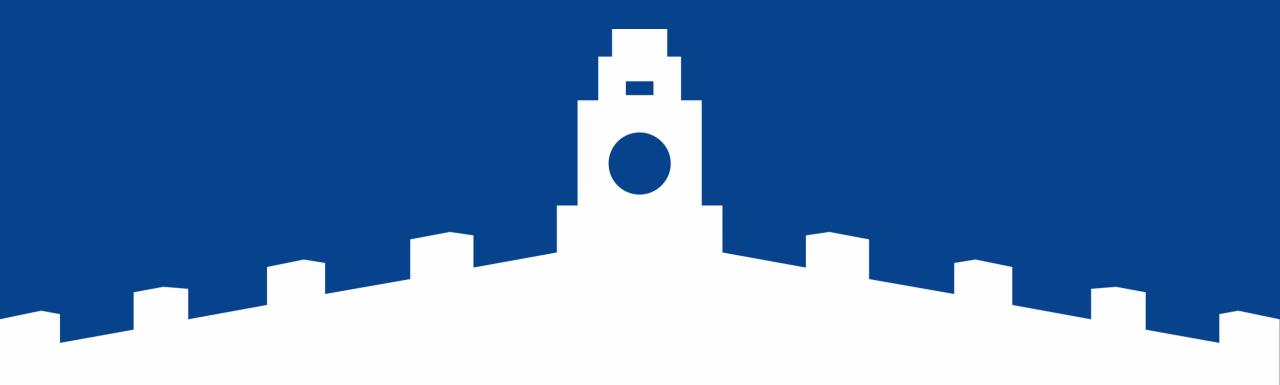
- Time to work with your data
- Trying to collect data

#### 6. Future of Al

- Sora: <a href="https://openai.com/index/sora/">https://openai.com/index/sora/</a>
- GPT 5: <a href="https://www.youtube.com/watch?v=bskwt1ujtN0">https://www.youtube.com/watch?v=bskwt1ujtN0</a>



Thank you for your attention!



# Questions?