



## **Artificial Intelligence I: Introduction to Data Science and Machine Learning Certificate Program**

Project Name

Project Members

# Outline

- List the topics and titles that will be discussed in the presentation.

# Introduction

- You can explain your project in short sentences
- Your motivation to do the project
  - You can state why the problem is important and in which area it will be used.
- Widespread impact of your project
  - Economic impacts of your project
  - Social ethics of your project
- The goal you want to achieve at the end of the project

# Dataset

- You can explain how you collected the data
  - If you use any available dataset, please indicate its source
- You can describe the structure and content of the dataset
  - You can indicate the general statistical properties of the data
- You can explain data cleaning, scaling, and transformation steps
- You can explain how you handle missing or outlier data
- (You can write EDA outputs and results)

# Visualization

- You can visually explain your data using various visualization methods.
  - plot, scatter, histogram, heatmap, correlation, etc.
- You can visually express the parts of the data that need attention.

# Methodology

- Specify the machine learning model used
- You can explain how you selected and trained your model
  - If there is a special reason for choosing the model, you can specify it
- You can use and compare multiple models and methods
- You can visually explain the models and methods used in simple blocks

# Results

- You can compare the results you get with different models in a table
- You can specify which method and scenario you got the best results
- You should choose metrics appropriate to the method you apply
  - $R^2$ , Accuracy, F-1, etc.

# Conclusion & Discussion

- You can comment on the results of the methods you apply
- Expressing the results visually strengthens the presentation
- You can show the best result you got
- You can talk about the strengths and weaknesses of the method you use
- You can make suggestions for future work and development



(Q & A)  
(Thank You)

# Referances

- You should list the references of works you have taken from the internet or any academic publication here
  - Cite all the sources you wrote in the reference section within the presentation
  - You do not need to write sources that you do not cite
- You can review the document below for information about the use of sources and citations:
  - <https://dergipark.org.tr/tr/download/journal-file/17970>
  - <https://apastyle.apa.org/style-grammar-guidelines/references/examples>
  - <https://ieeeauthorcenter.ieee.org/wp-content/uploads/IEEE-Reference-Guide.pdf>

# General Recommendations

- You should avoid long texts as much as possible
- You can state the main points with short and concise sentences and express important details verbally
- Visual illustrations make it easier for listeners to understand you
- Explaining the motivations underlying the methods you apply strengthens the presentation.
- Commenting on your results strengthens the presentation
- You can use sources other than your own work, but you must cite these sources in the presentation and appear in the references.
  - But in general, focusing on your own work makes your presentation much more effective.