

Google-DGC METU

# Introduction to Advanced DL

Presented by AI/ML Team



# Week-5

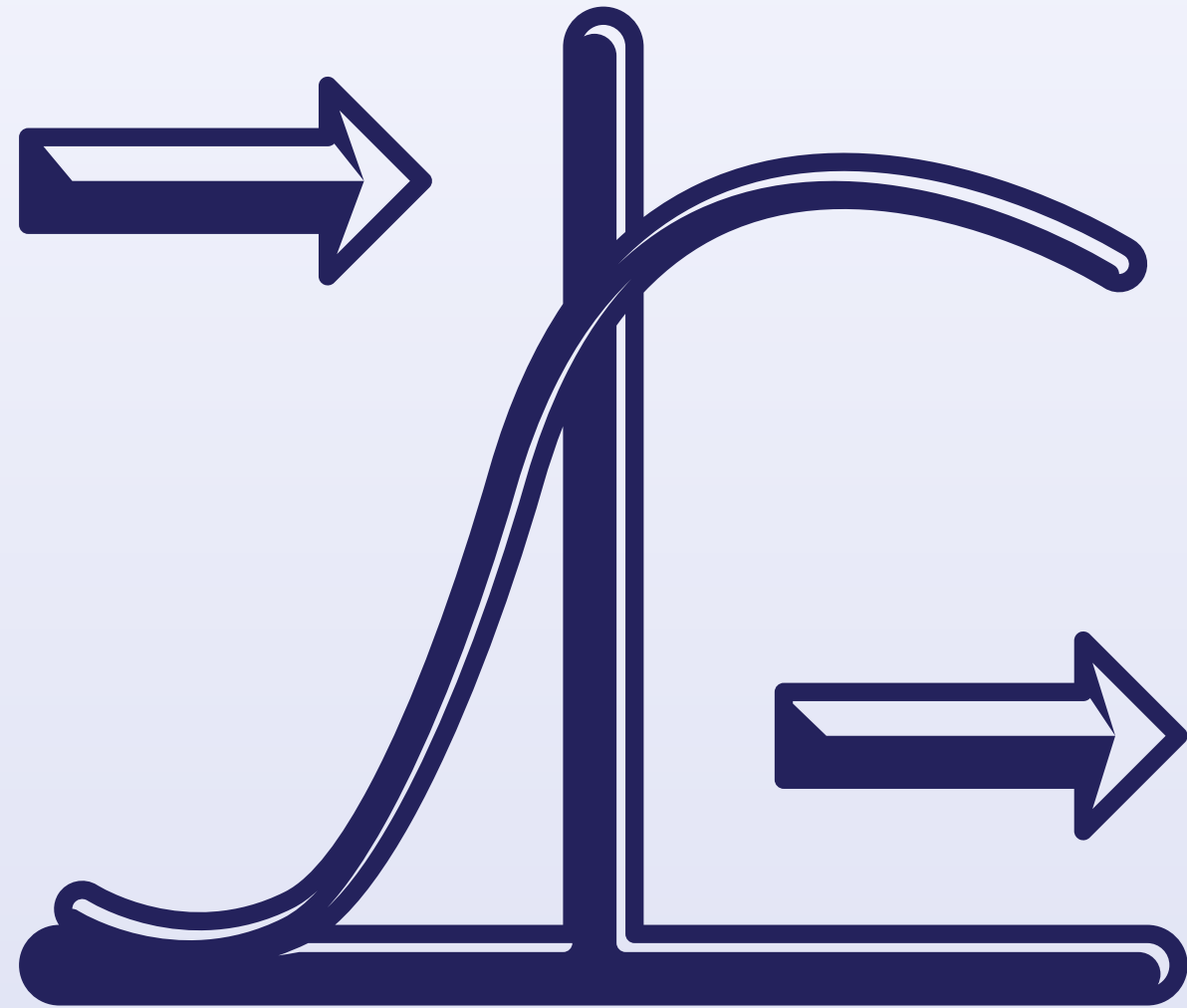
- Optimizers
- Activation functions
- Loss functions
- Layer types



# Optimizers

# Why Optimizers?

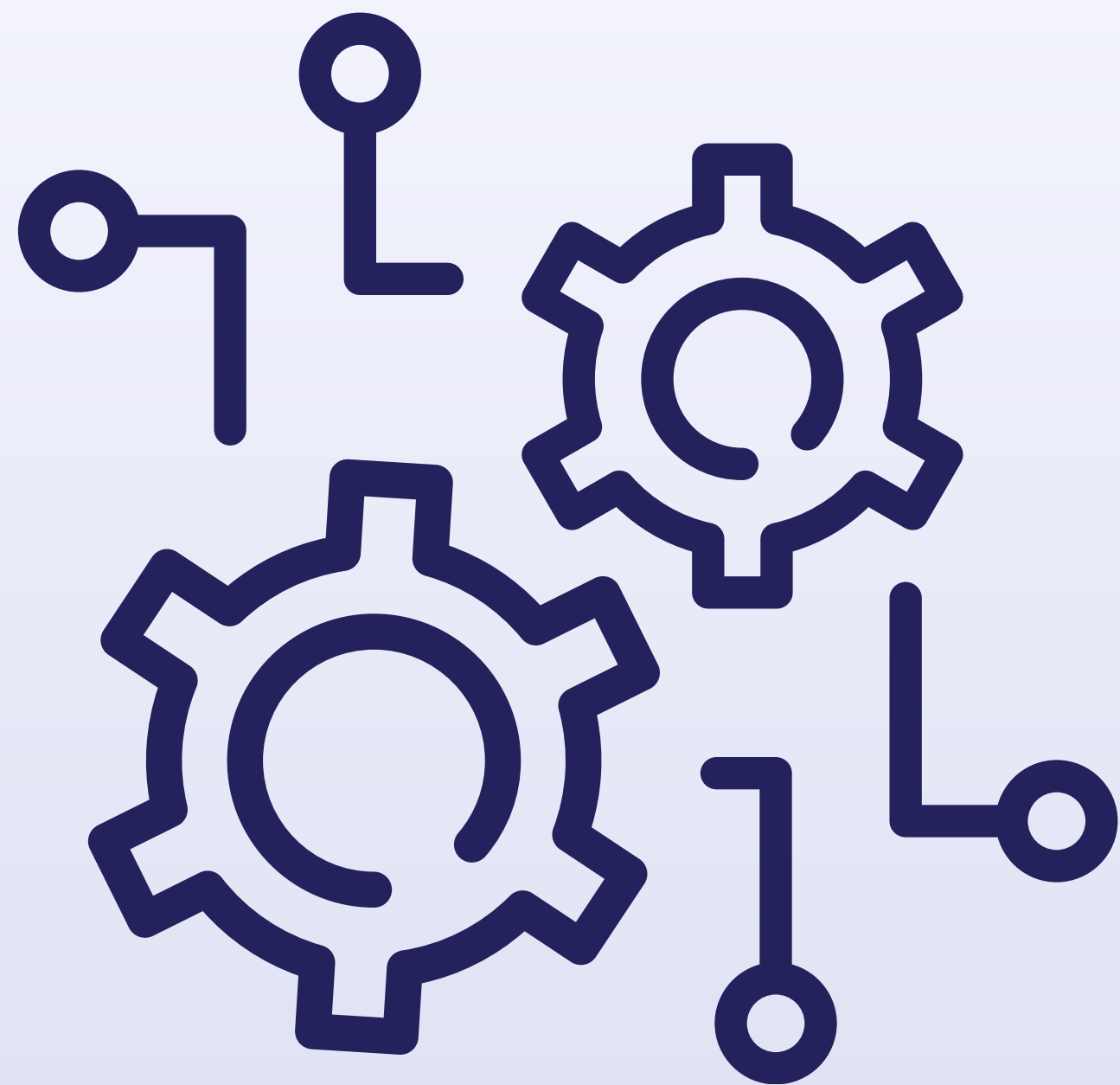




# Activation Functions

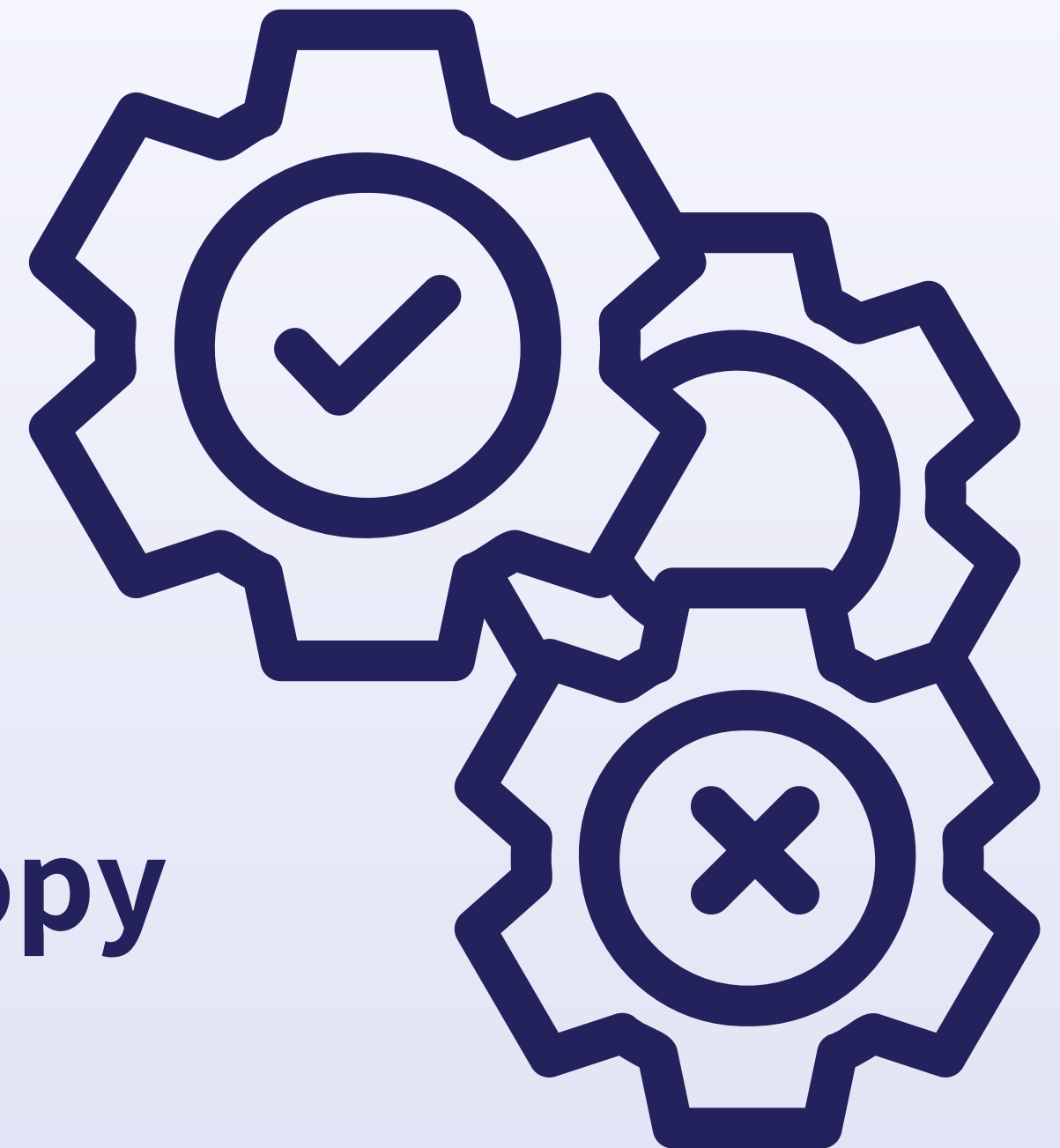
- **ReLU**
- **Sigmoid**
- **Tanh**
- **Softmax**
- **Leaky ReLU**
- **ELU**
- **Linear**





# Loss Functions

- **Mean Squared Error (MSE)**
- **Mean Absolute Error (MAE)**
- **Binary Cross-Entropy**
- **Categorical Cross-Entropy**
- **Sparse Categorical Cross-Entropy**
- **Huber Loss**







# Layer Types

