

Intro2GenAI homework for deep learning

Lecturer's Name: Wen-Chieh Fang

Fall 2025

- Deadline: October 11 (Saturday) at 23:00. Please upload your notebook file to the course e-learning platform.

1 Programming Assignment

1.
 - Task:
Implement a CNN model using the PyTorch framework with the [Cat and Dog](#) dataset. Build a basic CNN architecture based on the sample code, and enhance it by incorporating Batch Normalization and Dropout. Compare the model's performance with and without these techniques. You may also apply additional preprocessing or feature engineering methods if needed.
 - Performance Metric:
Train the CNN on the training data and report the test accuracy.
 - Submission:
Submit a Python notebook (.ipynb) file named with your student ID.