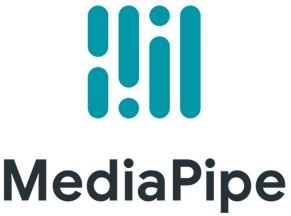
Lab7: ASR, Facial keypoints, Face emotion recognition

3099704 AI for Digital Health (2025/2)

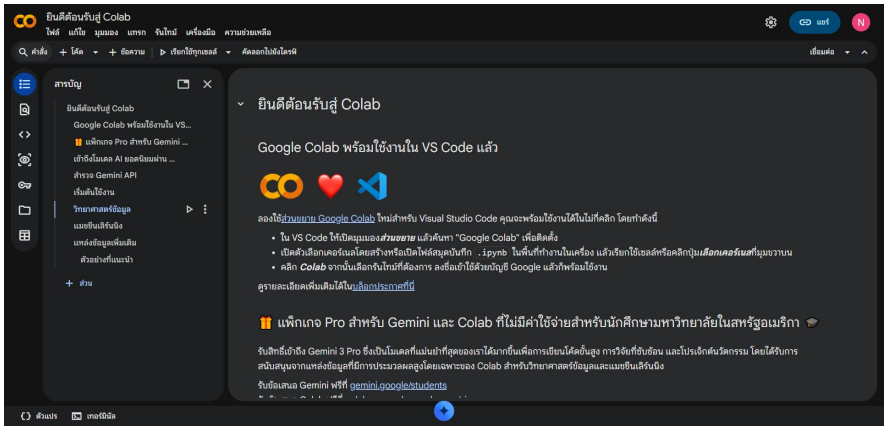
Objective

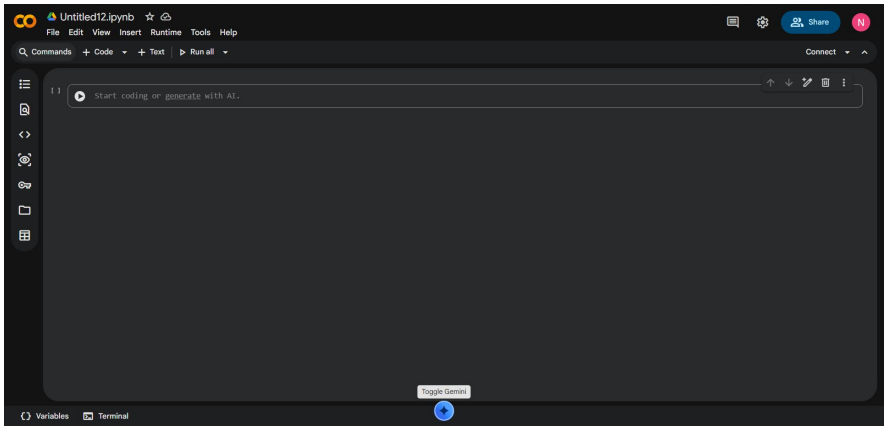
- Use pre-trained models to perform Thai Automatic Speech Recognition (ASR) and Face Recognition.



Material

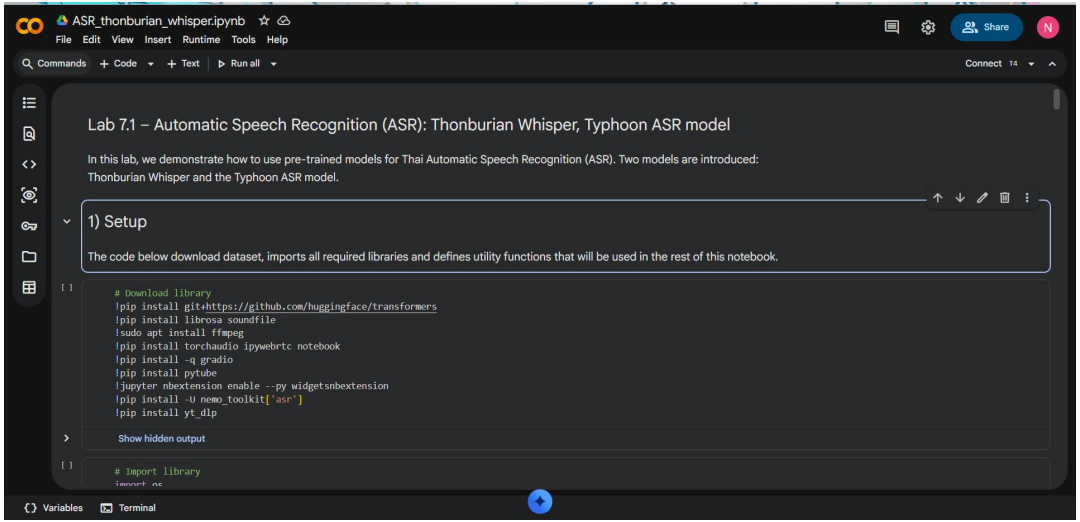
- With **Google Colab**, you don't need to install any software. All you need is a Google account, and you can start using it right away. Simply visit: https://colab.research.google.com/ or select NEW NOTEBOOK to start a new file.





Lab7.1: Automatic Speech Recognition (ASR)

In this lab (Lab_7_1_ASR.ipynb), we demonstrate how to use pre-trained models for Thai Automatic Speech Recognition (ASR). Two models are introduced: Thonburian Whisper and the Typhoon ASR model.



Lab7.2: Face Recognition

In this lab (Lab_7_2_FaceRecognition.ipynb), we demonstrate examples of using the DeepFace and MediaPipe frameworks, which are used for face recognition and facial attribute analysis.