- 1. An expected further improvement of model performance would come from utilizing the full traning dataset if we have sufficient RAM resources. Alternatively, a lower batch count during training and higher gradient_accumulation_steps can compenstate for the RAM usage with more traning time.
- 2. Data augmentation could be performed on the audio data, e.g. through low pass filtering, varying the tempo, or introducing artifects like echo to artificially increase the traning dataset.
- 3. The additional metadeta that came with the datasets: age, gender, accent could be incoporated into the model by adding additional layers on top of the base model for the extra inputs. These information can help the model make better predictions.