



Model Development Phase Template

Date	11 December 2024
Team ID	739902
Project Title	Alzheimer Disease Prediction
Maximum Marks	10 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

Initial Model Training Code (5 marks):

history = custom_in	ception_model.fit(train_data, train_labels, validation_data=(val_data, val_labels), epochs=30)
Epoch 1/30	
132/132	
Epoch 2/30	
132/132	—————————————————————————————————————
Epoch 3/30	
132/132	
Epoch 4/30	
132/132 ————————————————————————————————————	—————————————————————————————————————
132/132	———— 195≤ 1s/step - accuracy: 0.6401 - loss: 0.7899 - val accuracy: 0.6835 - val loss: 0.6505
Epoch 6/30	1575 1575tep - accuracy. 0.0401 - 1055. 0.7055 - Val_accuracy. 0.0055 - Val_1055. 0.050
132/132	
Epoch 7/30	23/3tep acturacy. 0.0/13 1033. 0.7507 Var_acturacy. 0.0521 Var_1033. 0.027.
132/132	224s 2s/step - accuracy: 0.6784 - loss: 0.7119 - val accuracy: 0.7083 - val loss: 0.623
Epoch 8/30	200 25, 500 000 000 000 000 000 000 000 000 0
132/132	
Epoch 9/30	
132/132	
Epoch 10/30	
132/132	177s 1s/step - accuracy: 0.7145 - loss: 0.6496 - val_accuracy: 0.7264 - val_loss: 0.5770
Epoch 11/30	
132/132	
Epoch 12/30	
132/132	218s 2s/step - accuracy: 0.7395 - loss: 0.6131 - val_accuracy: 0.7388 - val_loss: 0.598
Epoch 13/30	
132/132	—————— 242s 2s/step - accuracy: 0.7480 - loss: 0.5948 - val_accuracy: 0.7579 - val_loss: 0.5637
Epoch 14/30	
132/132	————— 320s 2s/step - accuracy: 0.7571 - loss: 0.5644 - val_accuracy: 0.7474 - val_loss: 0.5377
Epoch 15/30	
132/132 — Epoch 16/30	





Epoch 1//30	
132/132	205s 2s/step - accuracy: 0.7970 - loss: 0.5059 - val_accuracy: 0.7760 - val_loss: 0.5181
Epoch 18/30	
132/132	
Epoch 19/30	
132/132	
Epoch 20/30	
132/132	
Epoch 21/30	
132/132	210s 2s/step - accuracy: 0.8034 - loss: 0.4848 - val_accuracy: 0.7960 - val_loss: 0.5196
Epoch 22/30	
132/132	
Epoch 23/30	
132/132	276s 2s/step - accuracy: 0.8372 - loss: 0.4069 - val_accuracy: 0.8084 - val_loss: 0.4595
Epoch 24/30	
132/132	302s 2s/step - accuracy: 0.8449 - loss: 0.3985 - val_accuracy: 0.8093 - val_loss: 0.4812
Epoch 25/30	
132/132	226s 2s/step - accuracy: 0.8501 - loss: 0.4005 - val_accuracy: 0.7941 - val_loss: 0.4838
Epoch 26/30	
132/132	
Epoch 27/30	
132/132	
Epoch 28/30	
132/132	224s 2s/step - accuracy: 0.8739 - loss: 0.3416 - val_accuracy: 0.8141 - val_loss: 0.4822
Epoch 29/30	
132/132	238s 2s/step - accuracy: 0.8709 - loss: 0.3506 - val accuracy: 0.8132 - val loss: 0.4807
Epoch 30/30	
132/132	227s 2s/step - accuracy: 0.8684 - loss: 0.3752 - val_accuracy: 0.8208 - val_loss: 0.4703

Model Validation and Evaluation Report (5 marks):

Model	Summary	Training and Validation Performance Metrics
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