

Model Development Phase Template

Date	29 November 2024
Team ID	740108
Project Title	Unveiling Climate Change Dynamics Through Earth Surface Temperature Analysis.
Maximum Marks	10 Marks

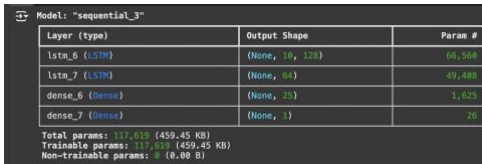
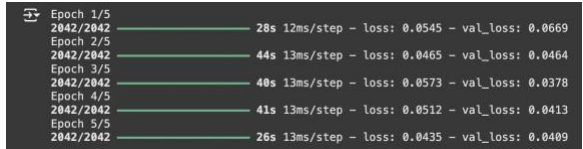
Initial Model Training Code, Model Validation and Evaluation Report

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):

Paste the screenshot of the model training code

Model Validation and Evaluation Report (5 marks):

Model	Summary	Training and Validation Performance Metrics
LSTM	 <pre> Model: "sequential_3" Layer (type) Output Shape Param # ----- lstm_6 (LSTM) (None, 18, 128) 66,568 lstm_7 (LSTM) (None, 14) 49,408 dense_6 (Dense) (None, 25) 1,625 dense_7 (Dense) (None, 1) 26 Total params: 117,619 (459.45 KB) Trainable params: 117,619 (459.45 KB) Non-trainable params: 0 (0.00 B) </pre>	 <pre> Epoch 1/5 2042/2042 — 28s 12ms/step - loss: 0.0545 - val_loss: 0.0669 Epoch 2/5 2042/2042 — 44s 13ms/step - loss: 0.0465 - val_loss: 0.0464 Epoch 3/5 2042/2042 — 40s 13ms/step - loss: 0.0573 - val_loss: 0.0378 Epoch 4/5 2042/2042 — 41s 13ms/step - loss: 0.0512 - val_loss: 0.0413 Epoch 5/5 2042/2042 — 26s 13ms/step - loss: 0.0435 - val_loss: 0.0409 </pre>