



Model Development Phase Template

Model	Summary	Training and Validation Performance Metrics
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Model	The model utilizes a pre-trained VGG19 architecture with imagenet weights, excluding the top layers. All layers in VGG19 are frozen (trainable=False), ensuring the pretrained weights remain unchanged. The flattened output of VGG19 serves as the input for the custom classifier to be built.	VGG19 = VGG19(input_shape=IMAGE_SIZE + [3], weights: imagenet', include_top=False) # DownLoading data from https://storage.googleopis_com/tensorfLow/keras-applications/vgs # 80134624/80134624 [====================================
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Date	02 October 2024
Team ID	739759
Project Title	OptiInsight - Revolutionizing Ophthalmic Care With Deep Learning For Predictive Eye Disease Analysis
Maximum Marks	10 Marks

Initial Model Training Code, Model Validation and Evaluation Report

Implemented a CNN using TensorFlow/Keras to train deep learning models for age and gender prediction and ophthalmic disease analysis. The models were validated with a 20% test split, achieving 85% and 92% accuracy, respectively. Evaluation metrics, including precision, recall, F1-score, and confusion matrix, demonstrated strong performance and minimal overfitting.

Initial Model Training Code (5 marks):

Paste the screenshot of the model training code

Model Validation and Evaluation Report (5 marks):



