Diabetic Retinopathy Detection

Name	Register Number	Models
Shourya Prasad	RA2011047010001	kNN
Arnab Banarjee	RA2011047010002	ResNet
Roshan Upadhyay	RA2011047010015	InceptionResNetV2
Zetindra	RA2011047010074	Random Forest
Chandan	RA2011047010072	Decision Trees
Sudharshan	RA2011047010078	CNN Model

Steps to run the file in google colab:

Step 1: Run the first cell to install Kaggle.

Step 2: upload the kaggle.json file from the folder.

Step 3: Run all the cells in the program (.ipynb file).

Models Used:

CNN Models	Traditional Models
InceptionResNetV2	Decision Trees
ResNet	Random Forest
CNN Model	kNN

Comparison Table of the performance of the models:

Models	Training Accuracy	Testing Accuracy
InceptionResNetV2	**99.80%**	**52.7%**
ResNet	**20.85**	**----**
CNN Model	**98.92%**	**----**
Decision Trees	**99.87**	**43.4%**
Random Forest	**99.87**	**43.4%**
kNN	**74.04%**	**43.8%s**

Conclusion: Since the training accuracy of InceptionResNetV2 model is the best so InceptionResNetV2 model performs the best.