Evaluation Report

Task:- To predict developer's role

Model Prediction

Model	Accuracy	Macro F1	
Logistic Reg.	0.76	0.75	
Random Forest	0.98	0.98	
LightGBM	0.98	0.98	
XGBoost	0.98	0.98	

Final chosen model: LightGBM, accuracy = 98.3%.

Feature Importance

Column-wise features are shown in detail in ReflectionSummay pdf in this rep

But still the most important was

CommitMessage :- TF-IDF was strongest (words like test, UI, API).

Flleextension := Grouping in (frontend,backend etc.) was predictive

Raw numeric data :- Made columns like churn,ave_file_added,avg_file_deleted,net_files and many more was useful