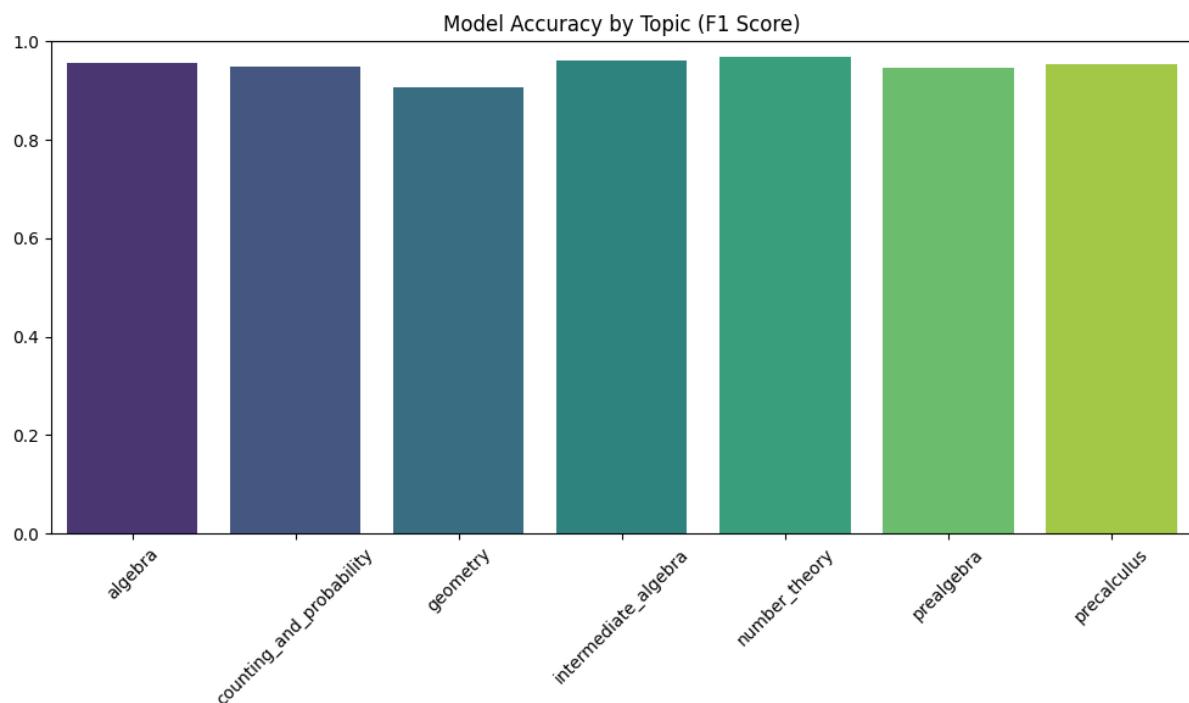


Math Question Classifier

I had utilized TF-IDF for this because it tends to focus on topic specific words .Also TF-IDF works great with small datasets as the dataset provided is 7.5k. I have selected a Support Vector Machine(SVM) with a linear kernel for this task. SVMs are robust for sparse text data. Choosing model like BERT will take a lot of tokens.

I deployed Mistral-7B-Instruct-v0.2 locally. Then Quantized the weights to 4-bit.This allowed the model to load without causing Out-Of-Memory crashes.

Model Performance-



Confusion Matrix

