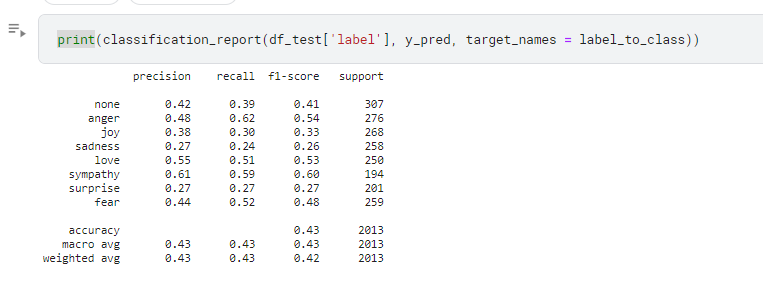
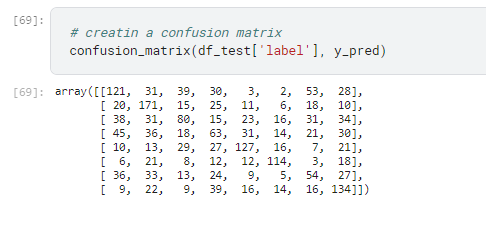
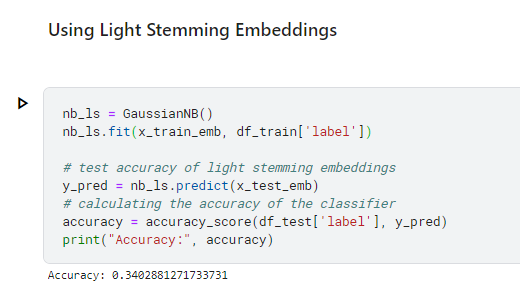


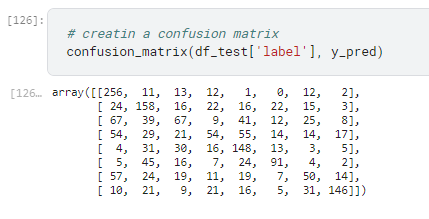
### **Using GaussianNB**

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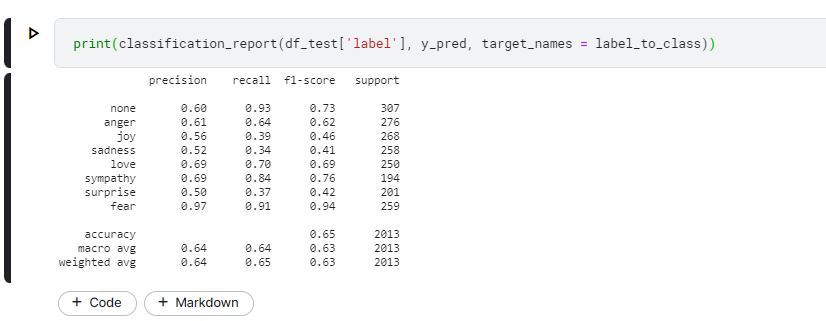


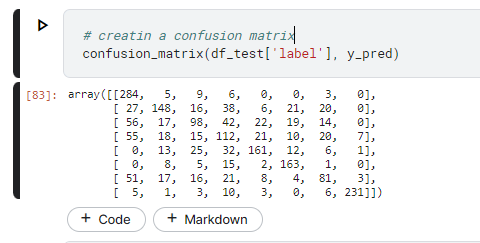


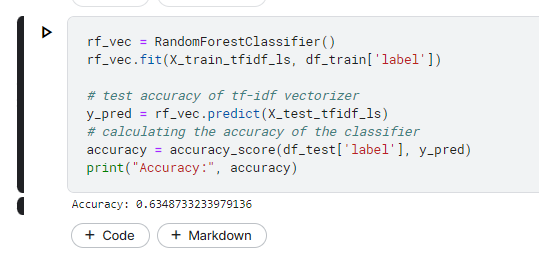


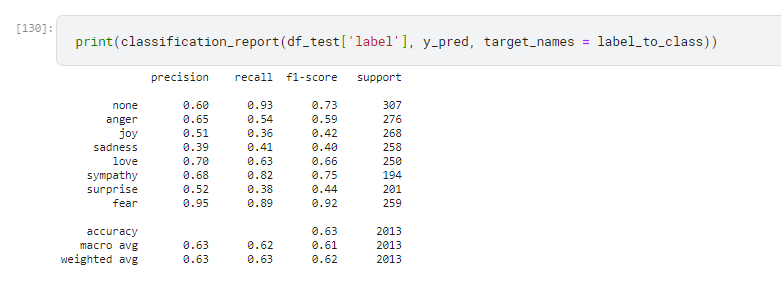
### **Using Random Forset**

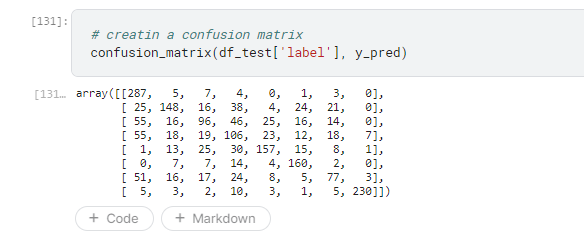


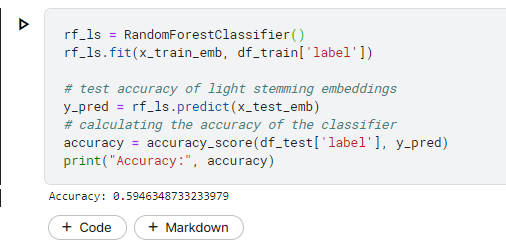




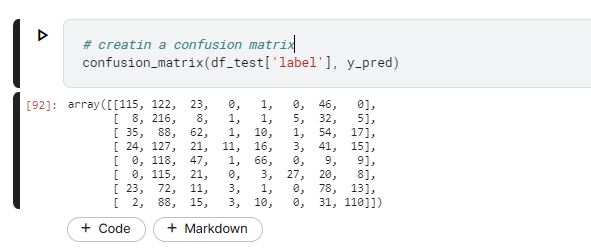






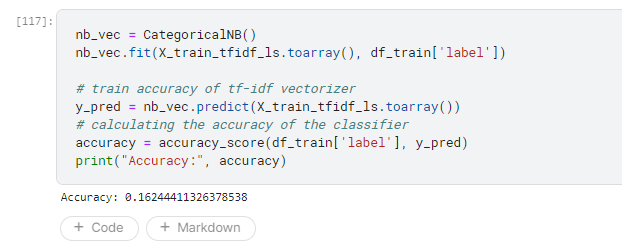


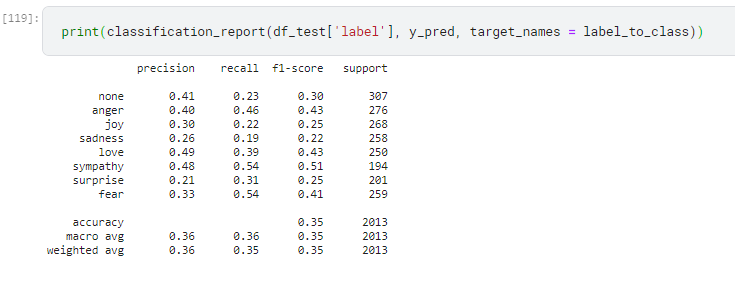


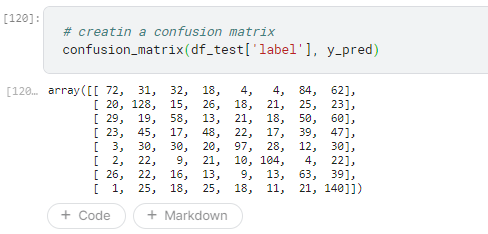


**Without removing the special tokens:**

### **Using CategoricalNB**

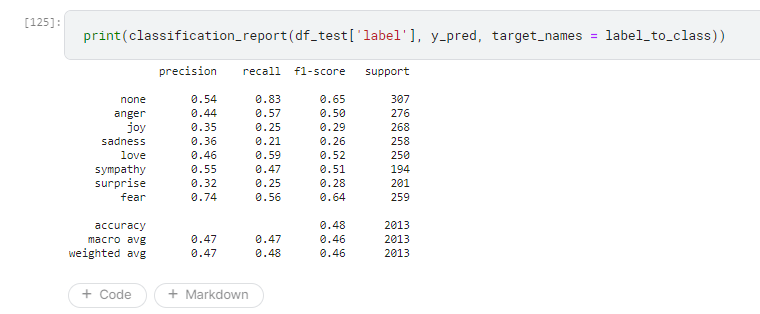


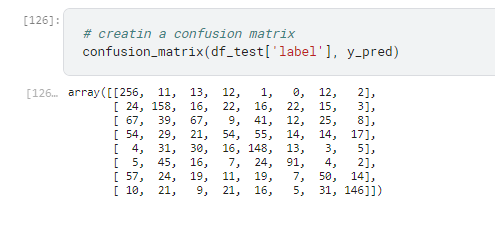




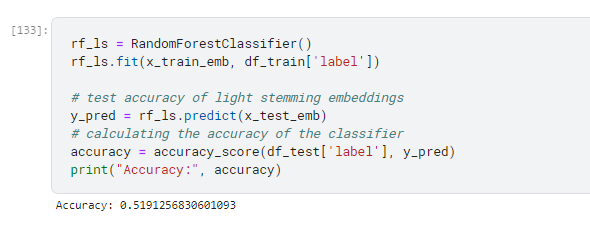
### **Using GaussianNB**

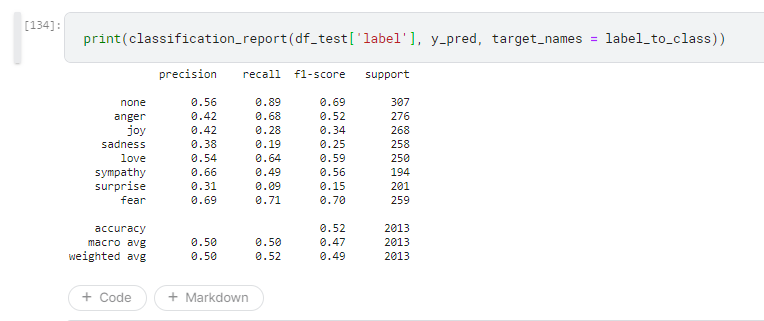


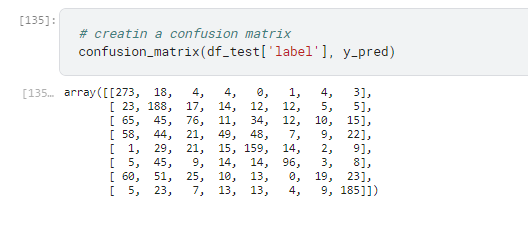




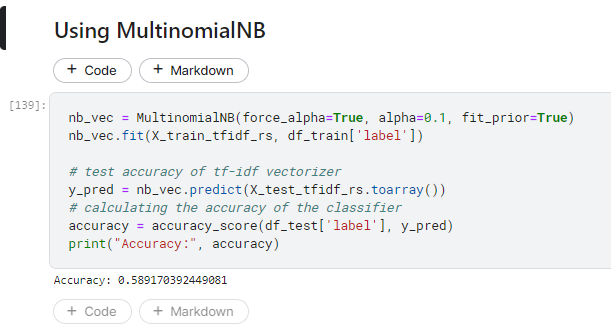
### **Random Forest**

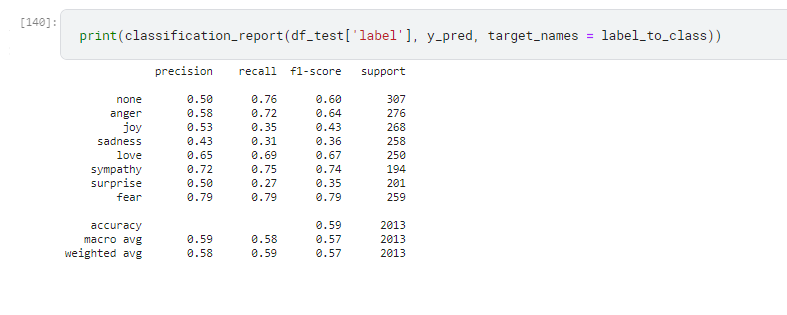


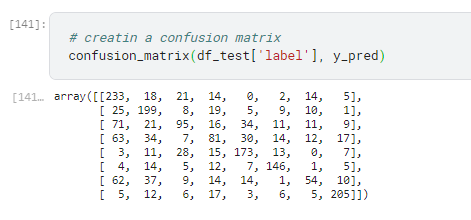


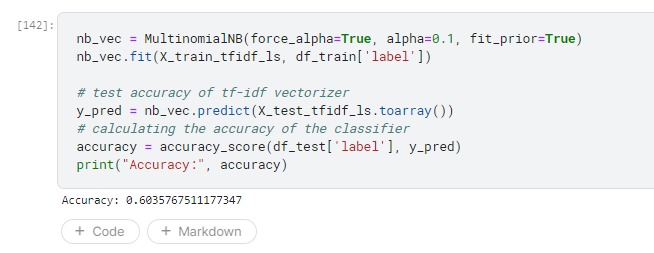


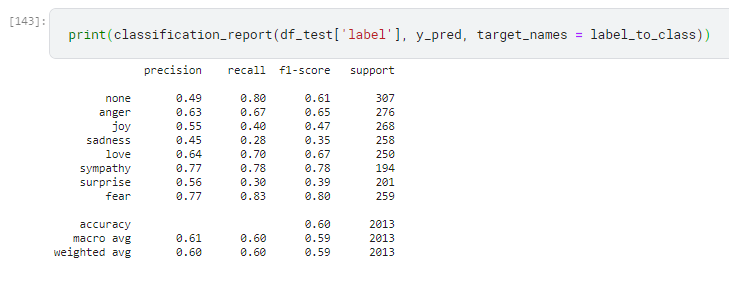
### **Using MultinomialNB**

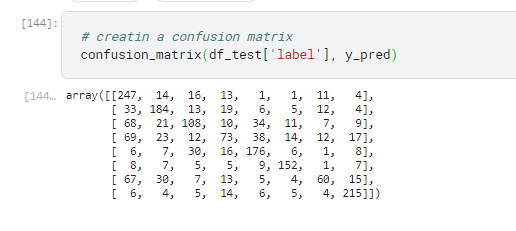








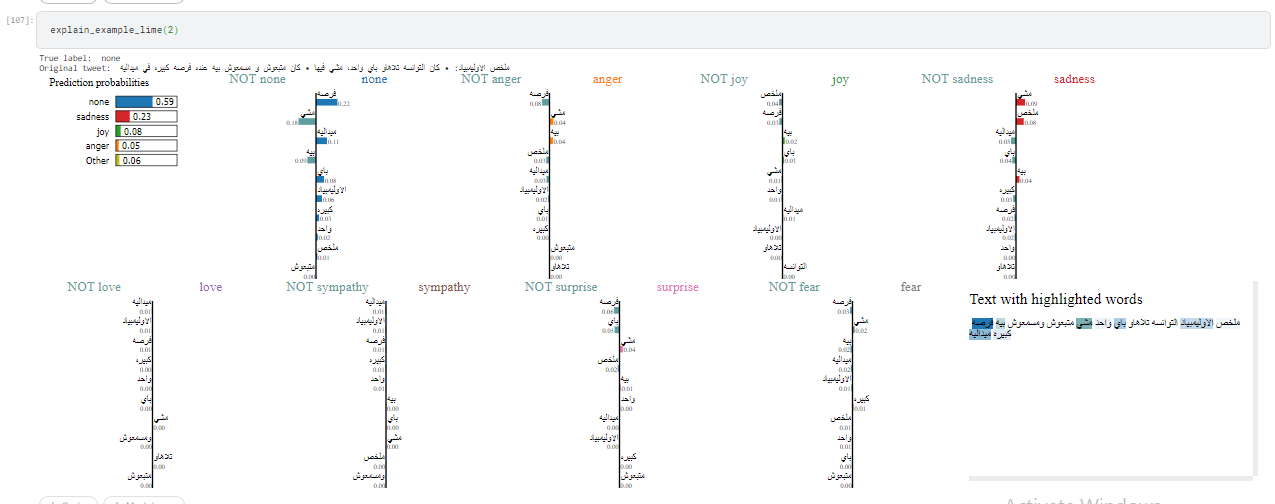


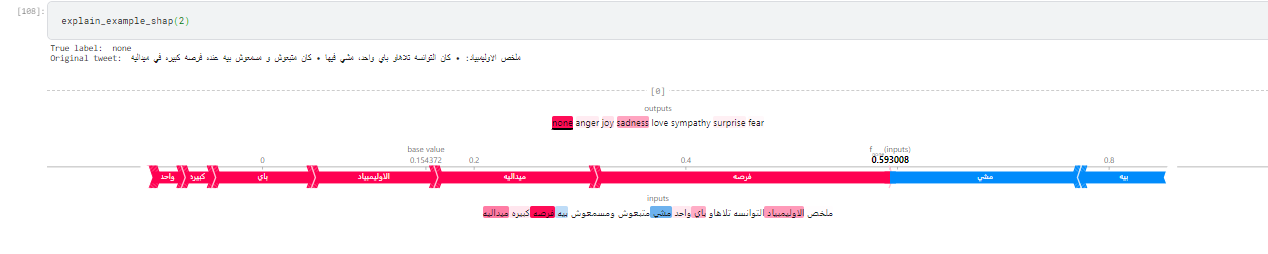


# Using XAI:

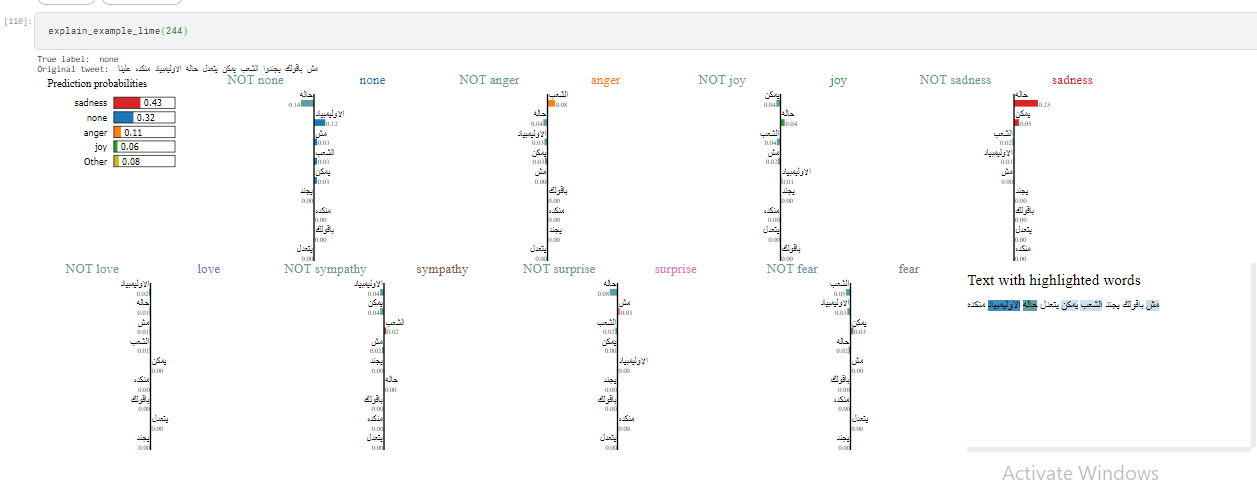
We used MultinomialNB using TF-IDF because it resulted in the best accuracy

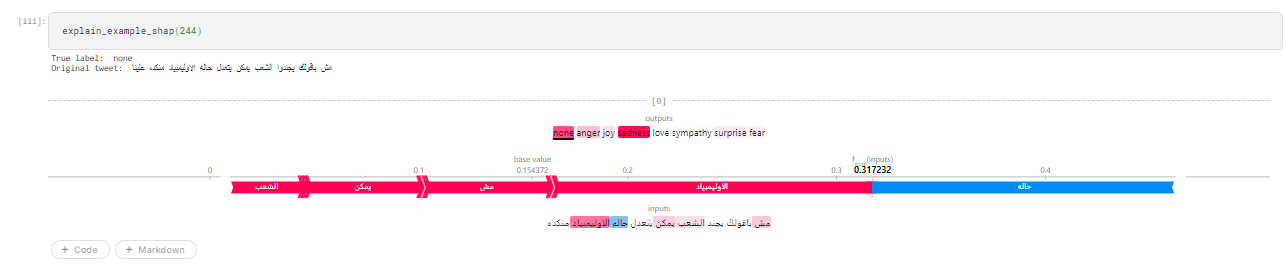
## **Label None predicted correctly**





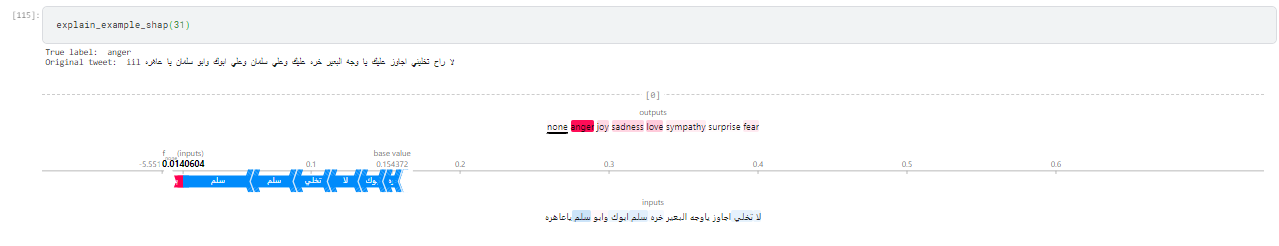
## **Label None predicted incorrectly**





## **Label Anger predicted correctly**



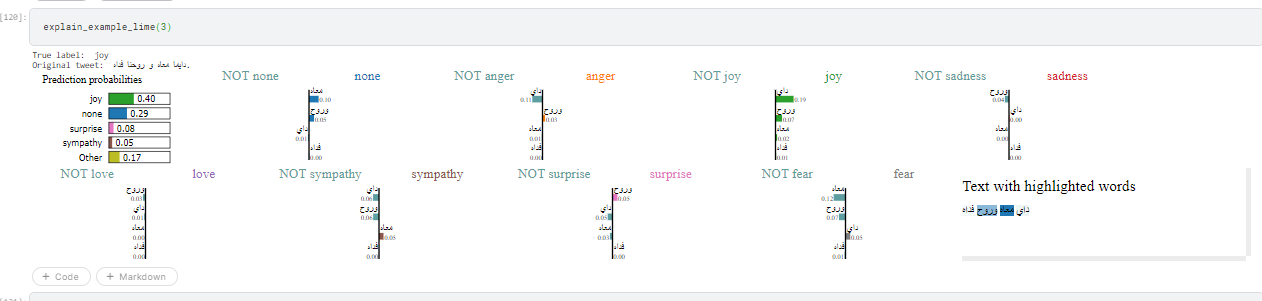


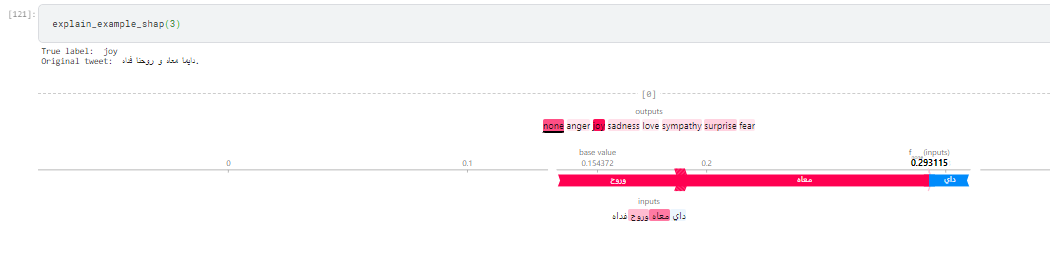
## **Label Anger predicted incorrectly**



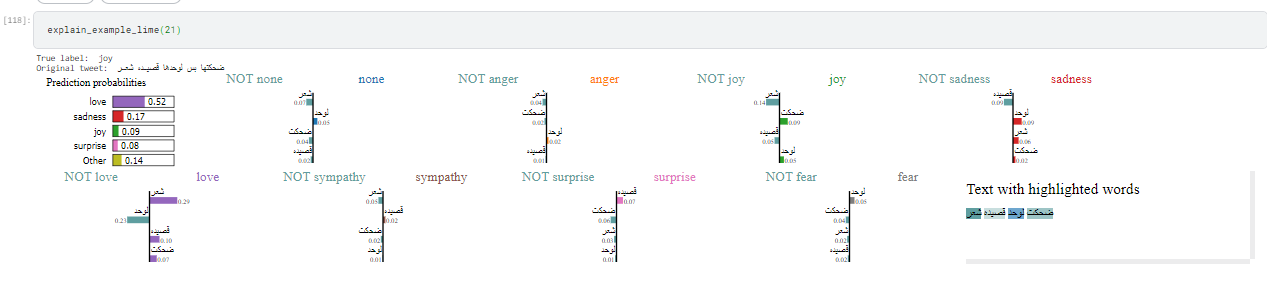


## **Label Joy predicted correctly**





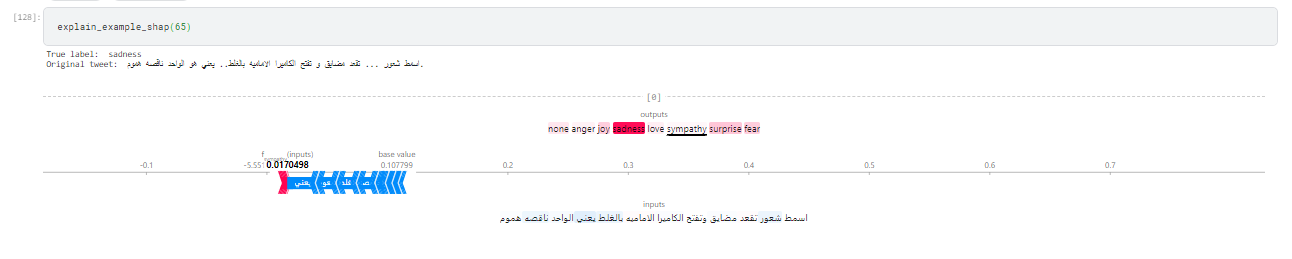
## **Label Joy predicted incorrectly**



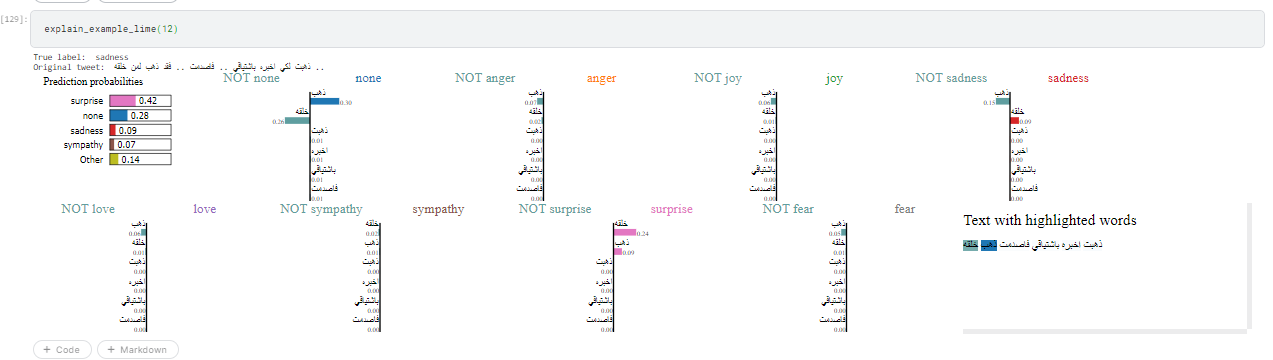


## **Label Sadness predicted correctly**



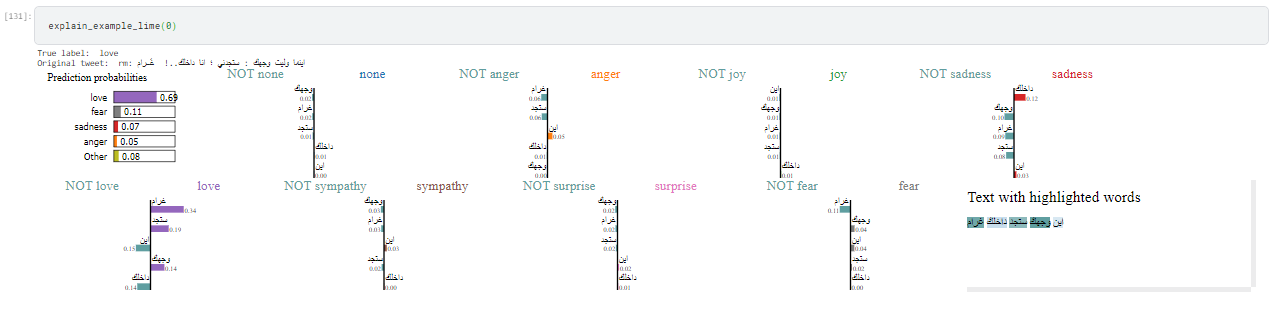


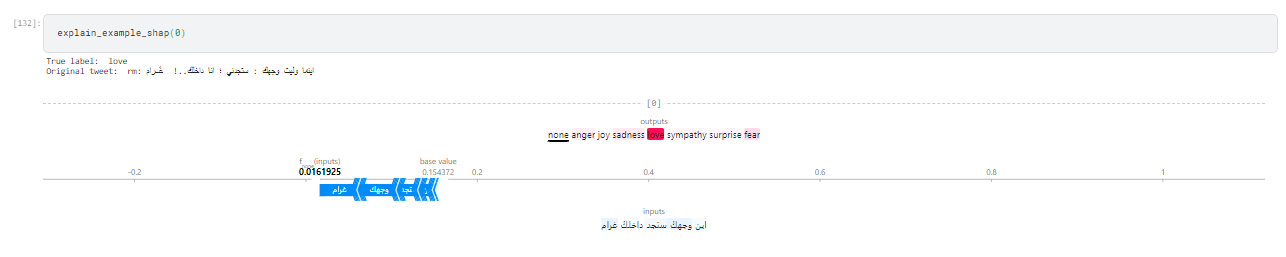
## **Label Sadness predicted incorrectly**



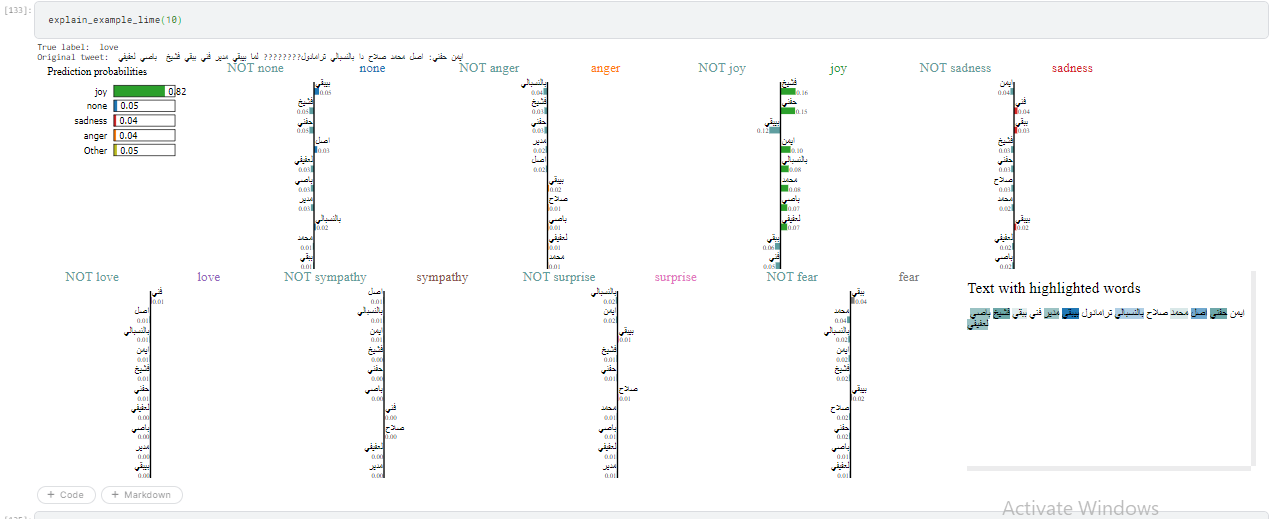


## **Label Love predicted correctly**



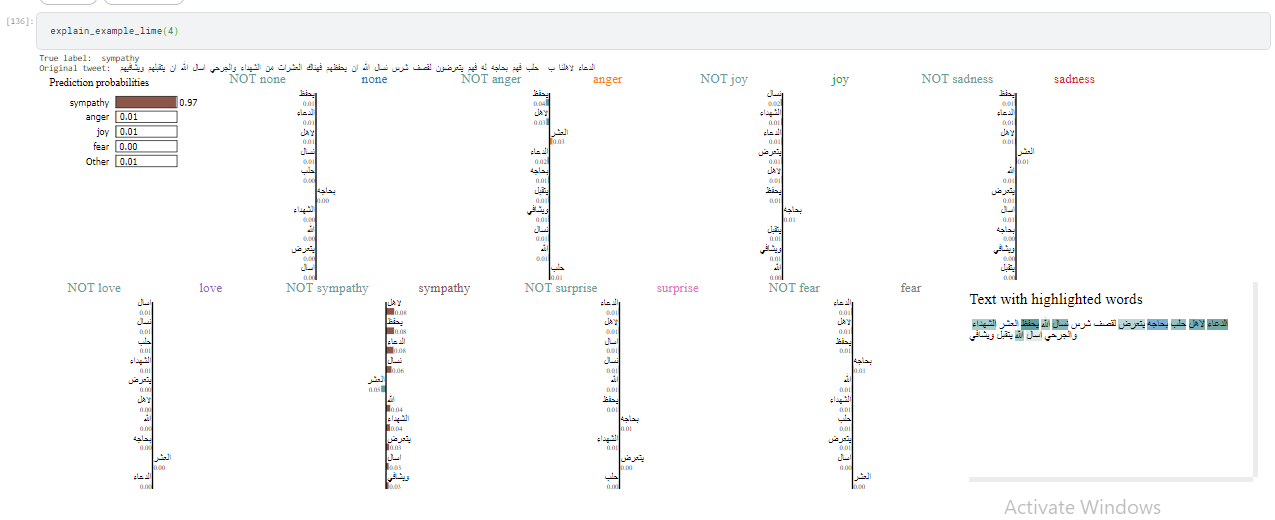


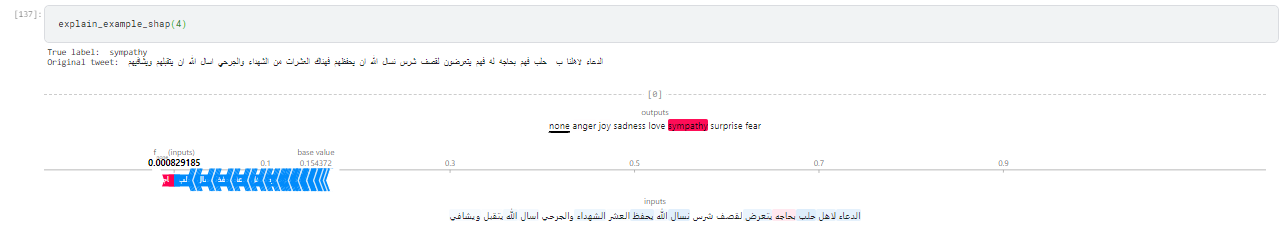
## **Label Love predicted incorrectly**





## **Label Sympathy predicted correctly**



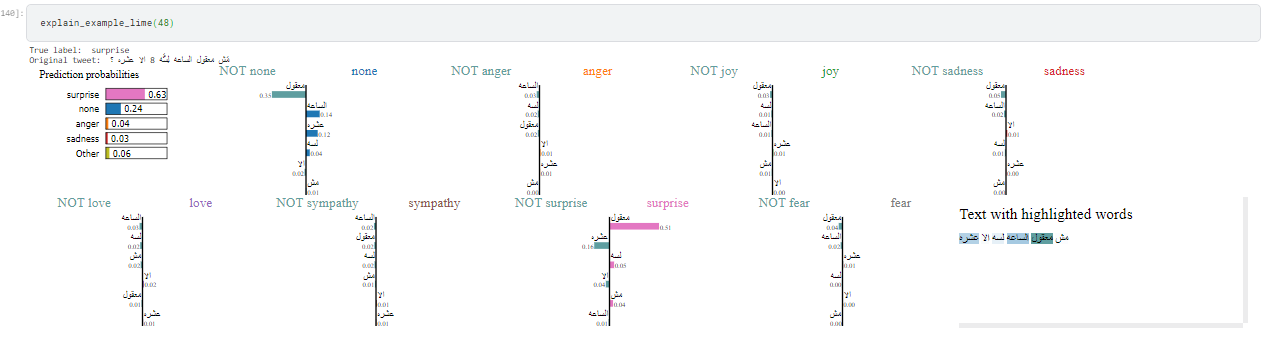


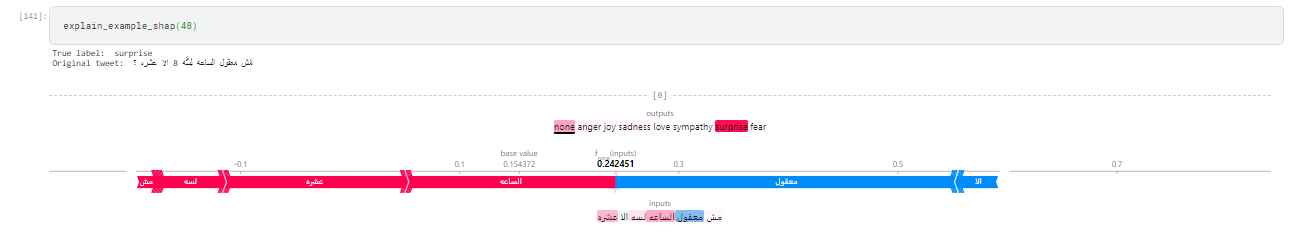
## **Label Sympathy predicted incorrectly**





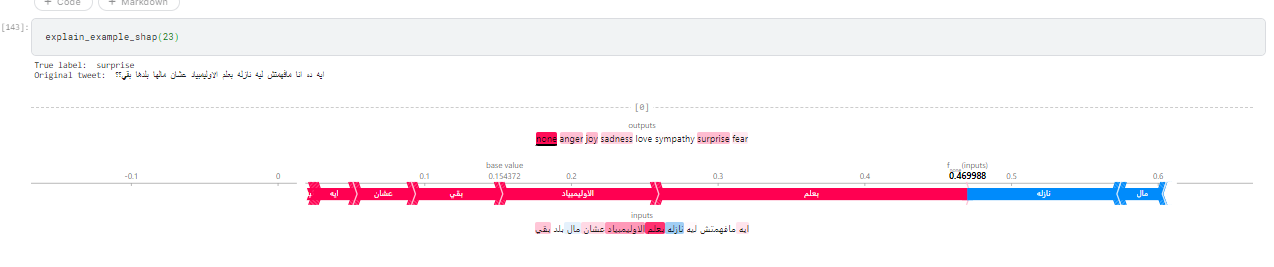
## **Label Surprise predicted correctly**



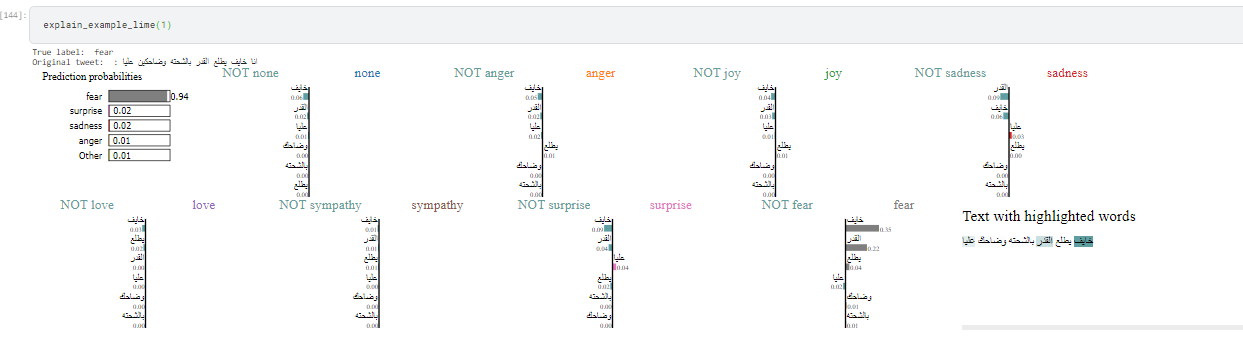


## **Label Surprise explained incorrectly**





## **Label Fear predicted correctly**





## **Label Fear predicted correctly**

