**# Story-categorization-using-NLP**

Self-narrated stories will be categorized into three categories using their sentiments. Three categories are: 0: Work Stress, 1: Bullying, 2: Sexual Harassment

Tactics Used:

1. Paragraph Vector using PV-DBOW and PV-DM

2. Decision Tree using Gini and Entropy

3. Logistic Regression - Epochs = 5

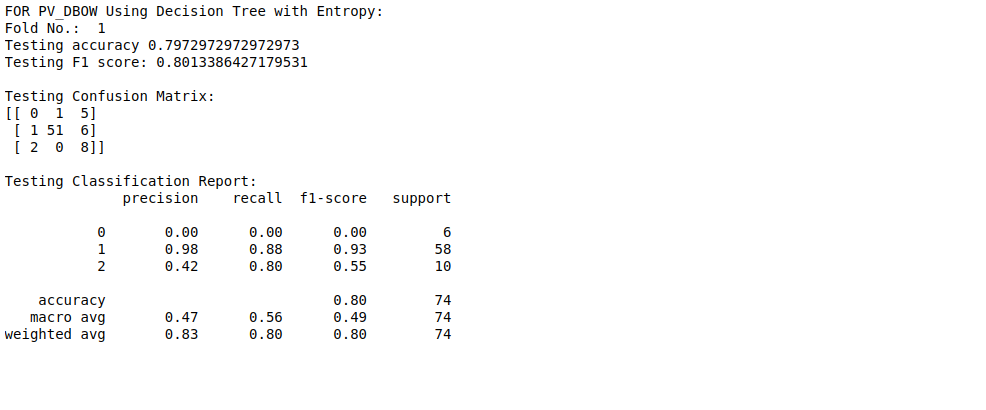
Validation Stat.:

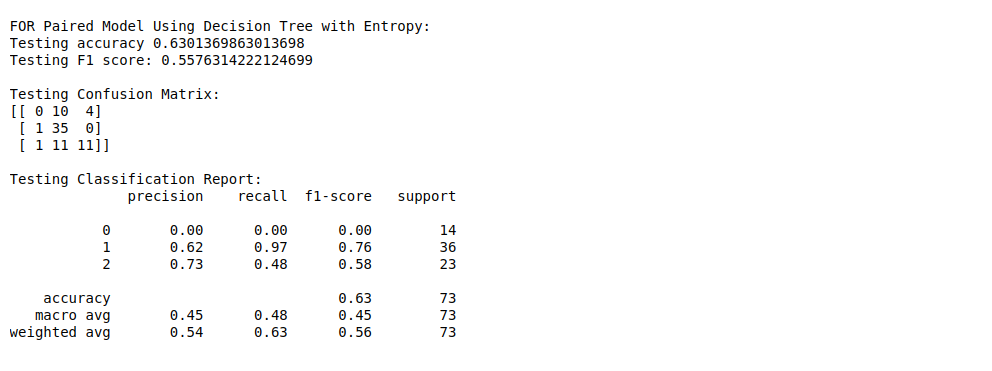
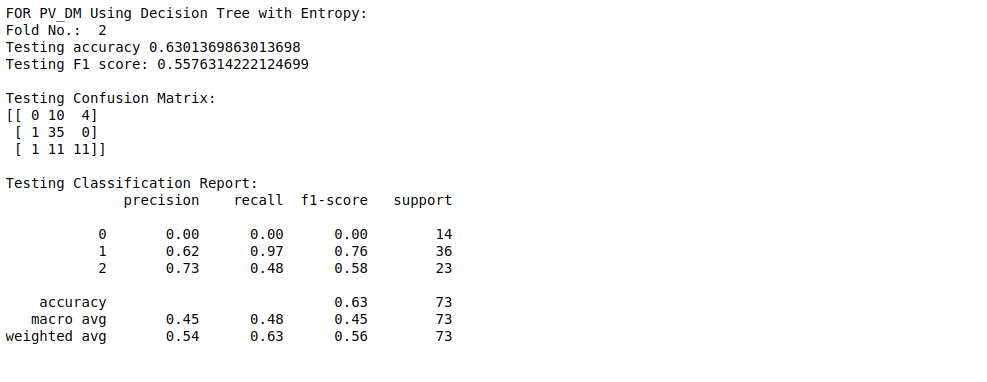
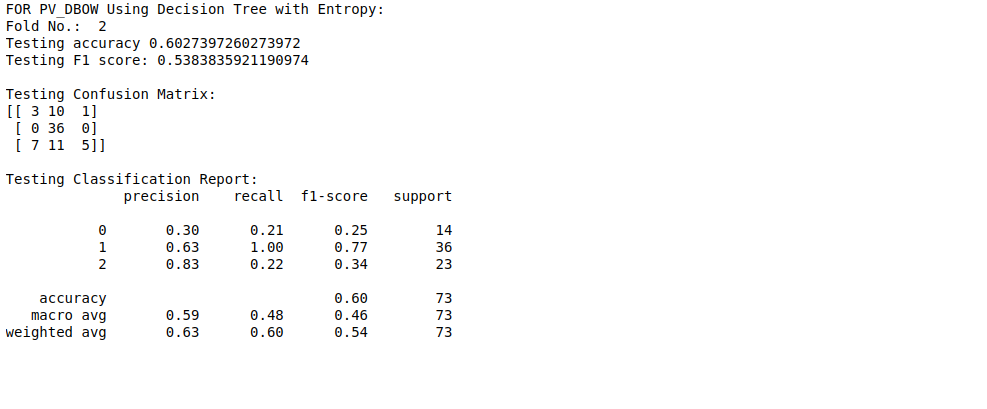
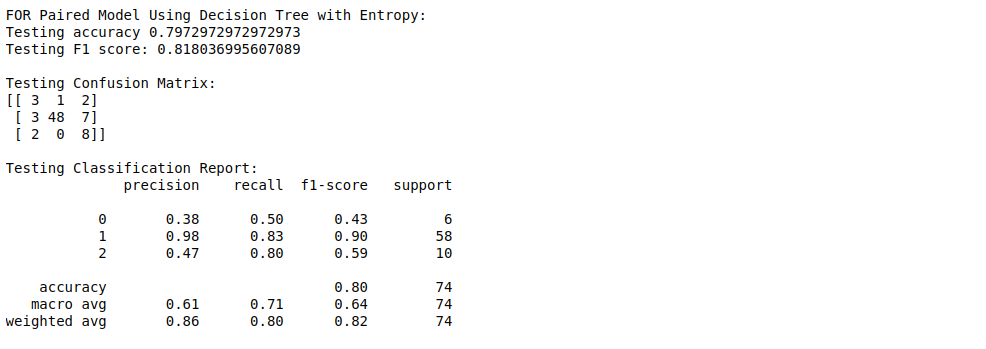
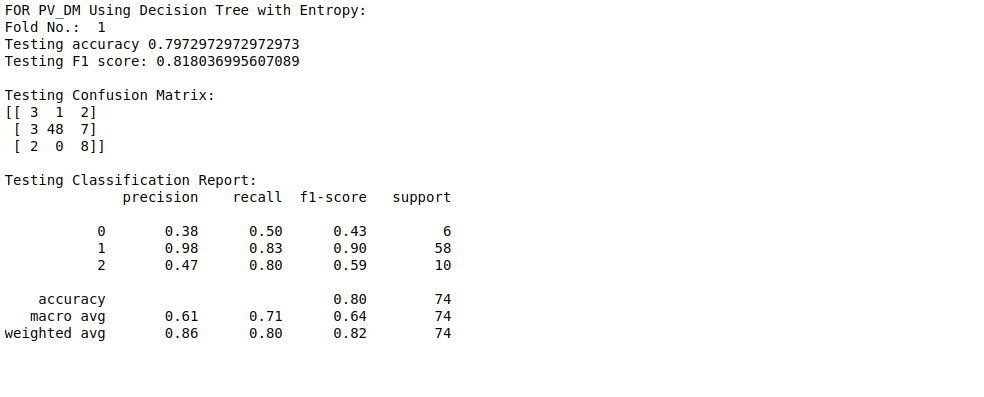
1. 2-fold cross-validation

2. Train Test split 80/20

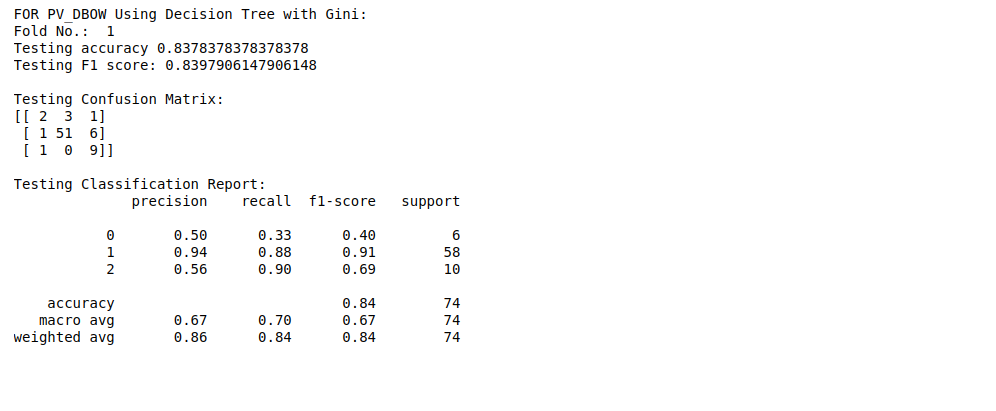
Decision Tree Results Using PV-DM, PV-DBOW, and Paired Model of PV-DM and PV-DBOW:

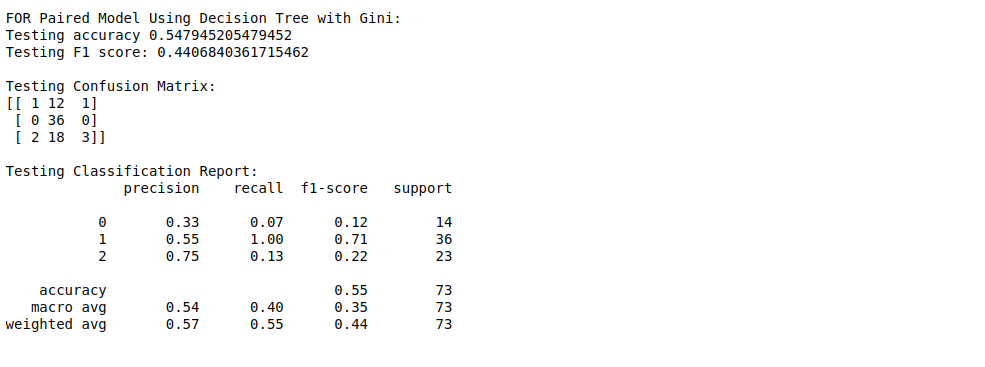
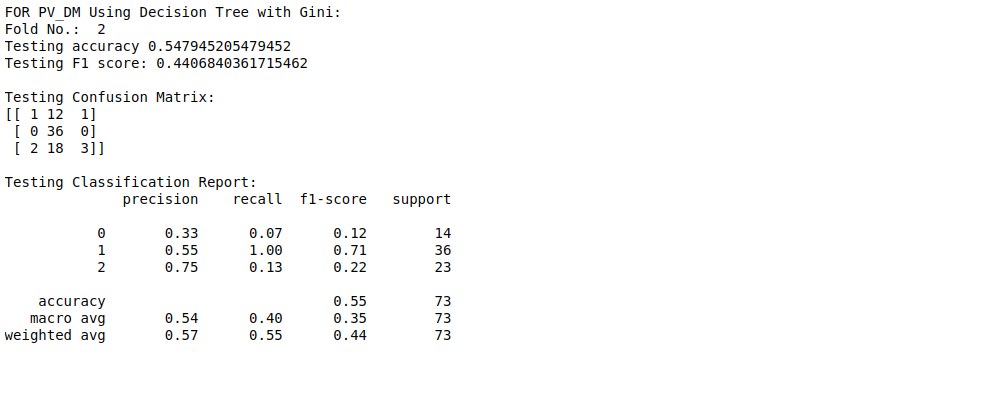
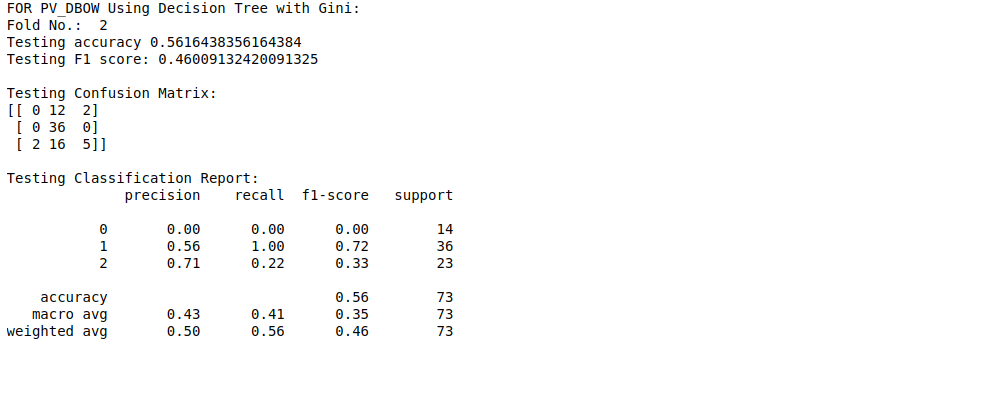
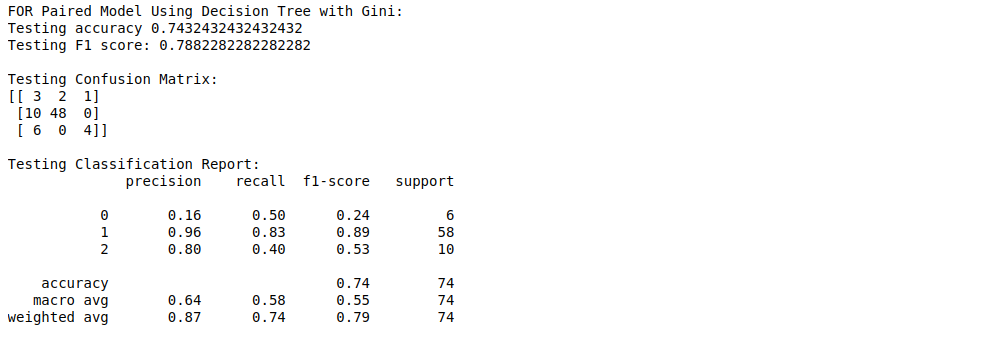
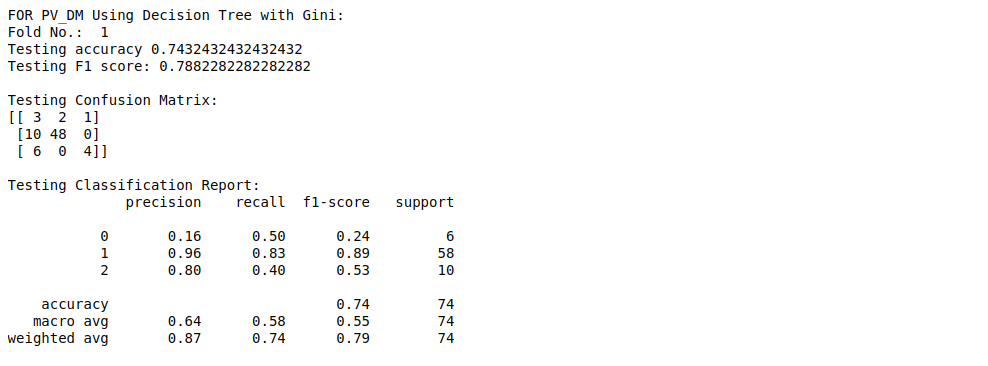
**Using Entropy:**





**Using Gini:**

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Logistic Regression Results Using PV-DM, PV-DBOW, and Paired Model of PV-DM and PV-DBOW:

**Using Logistic Regression:**