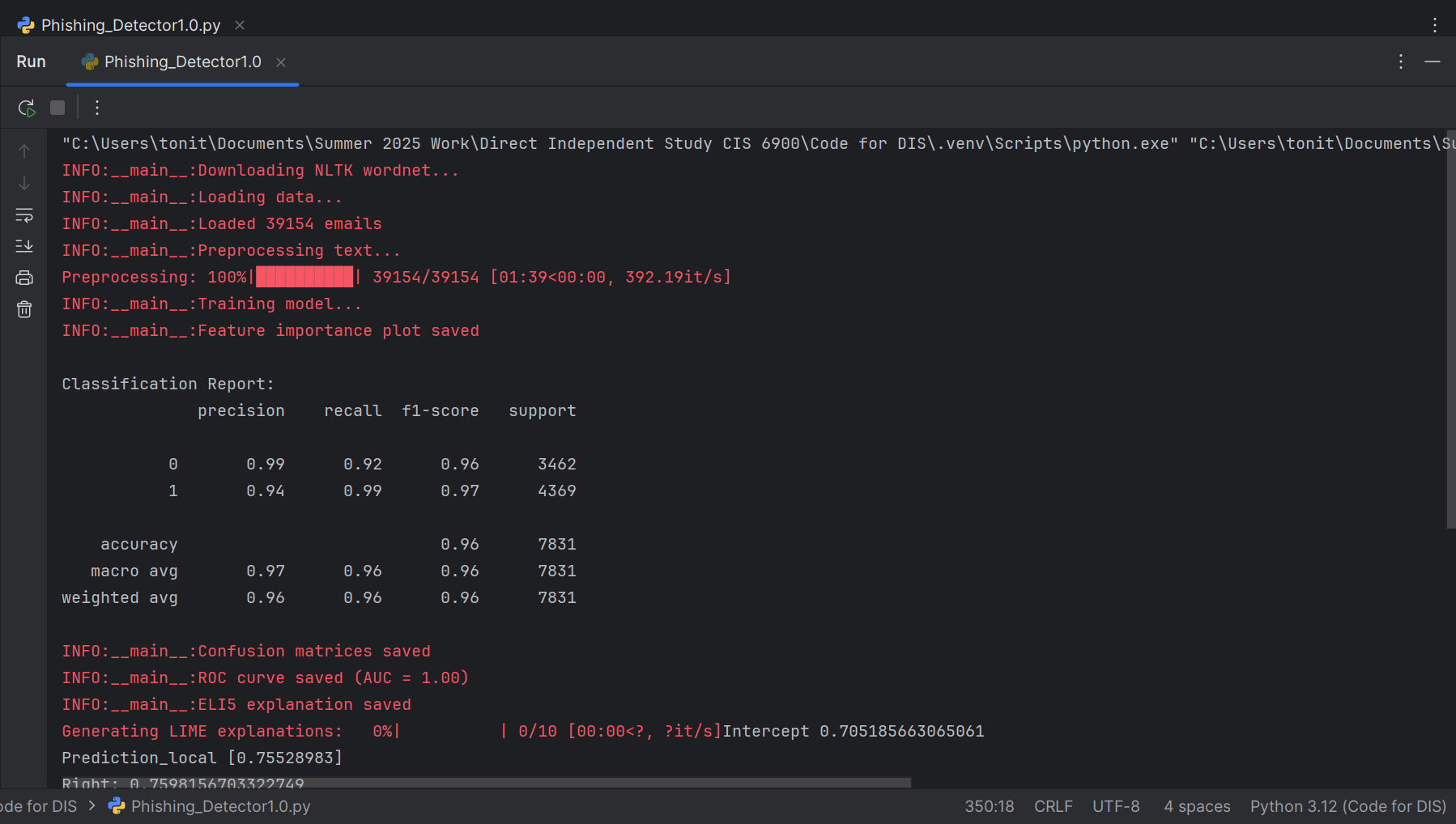
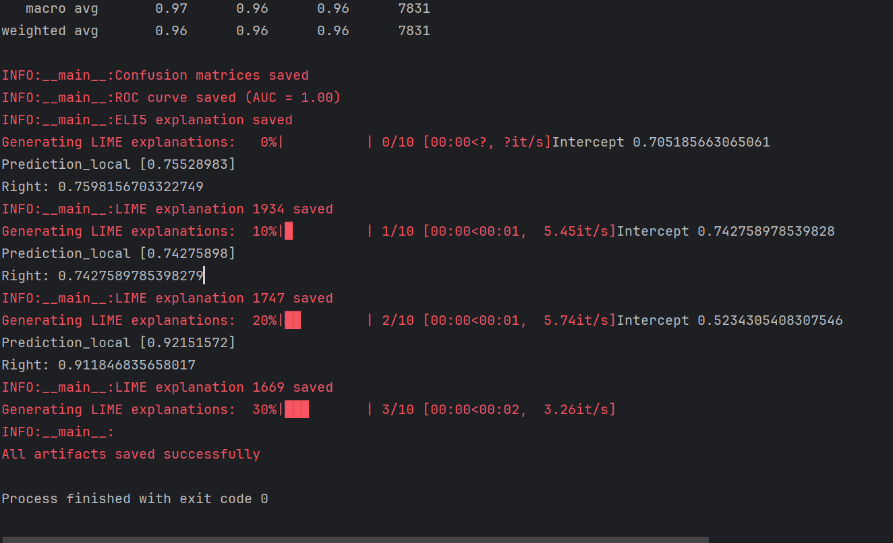
Week 7 Direct Independent Study Progress

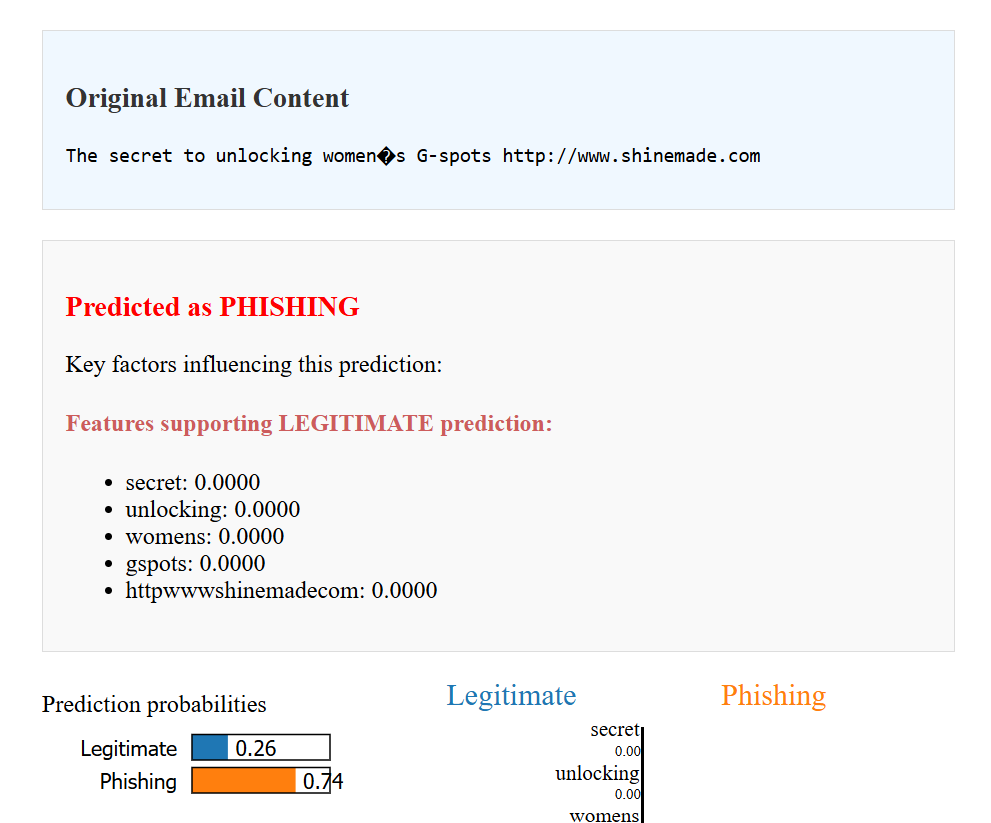
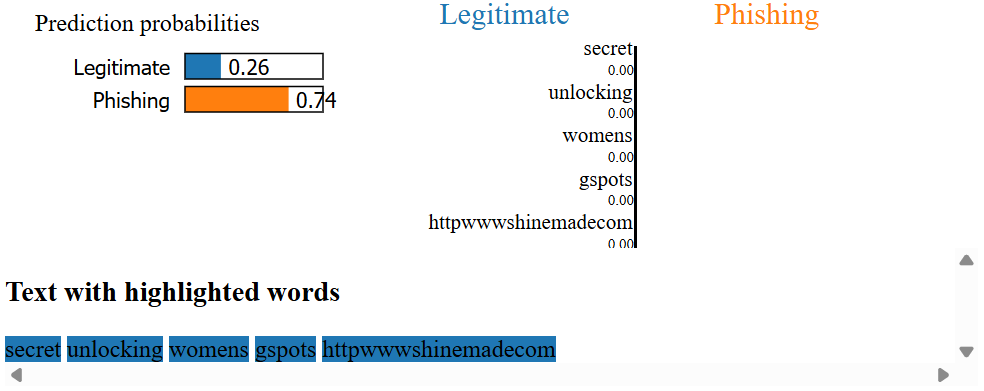
* **Topic Covering**: Al-Powered Phishing Detection Using NLP & Explainable Al.

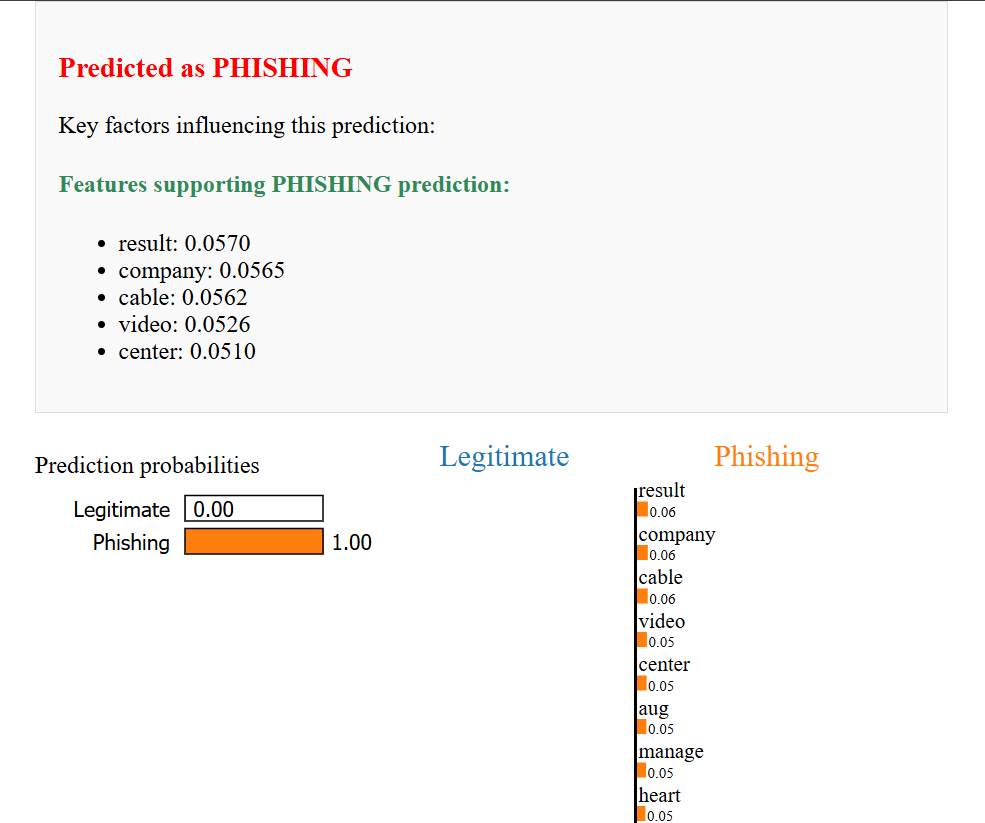
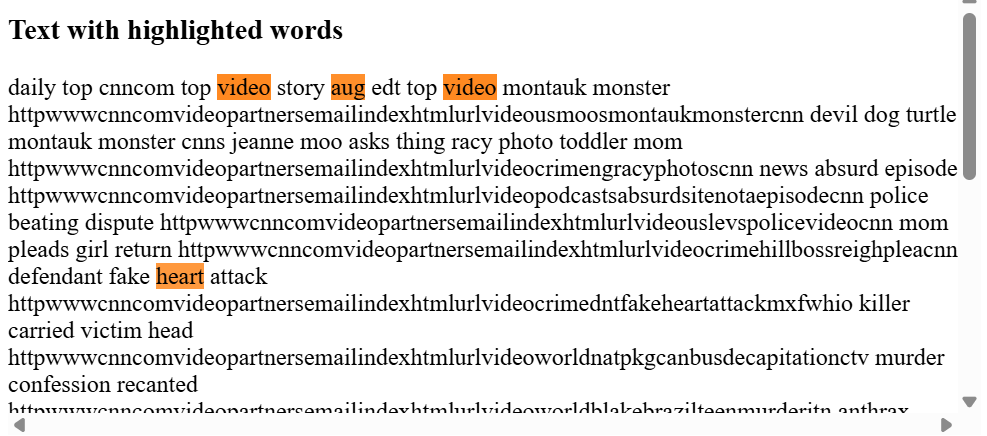
# **Explainable AI Integration**

* ***Focus:***
  + ***Apply SHAP/LIME:***
  + ***Use SHAP and/or LIME to interpret model decisions***
  + ***Visualize which tokens/phrases influenced classification***
  + ***Qualitative Analysis:***
  + ***Analyze explanations for both correct and incorrect classifications***
* ***Successfully generating both LIME and ELI5 results from email dataset analysis***
  + ***96% accuracy, AUC=1.00 (Will check for potential overfitting)***

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