





BIOCRAPHY

- From Miami, Florida
- · Living in Broome, VVA
- Bachelor of Science Degree in Business Management from Florida Gulf Coast University
- Passions
 - Sports
 - Video Games



BUSINESS COAL

Use Sentiment analysis to extract meaningful insights:



- Improve customer satisfaction
- Optimize marketing and communication strategies





BUSINESS PROBLEM

Developers receive large amounts of player feedback:

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- Difficult to identify what the player thinks
- Marketing team difficulties
- Unclear updates rolled out

DBJECTIVES Classify Reviews • Identify key themes/topics • Generate actionable insights

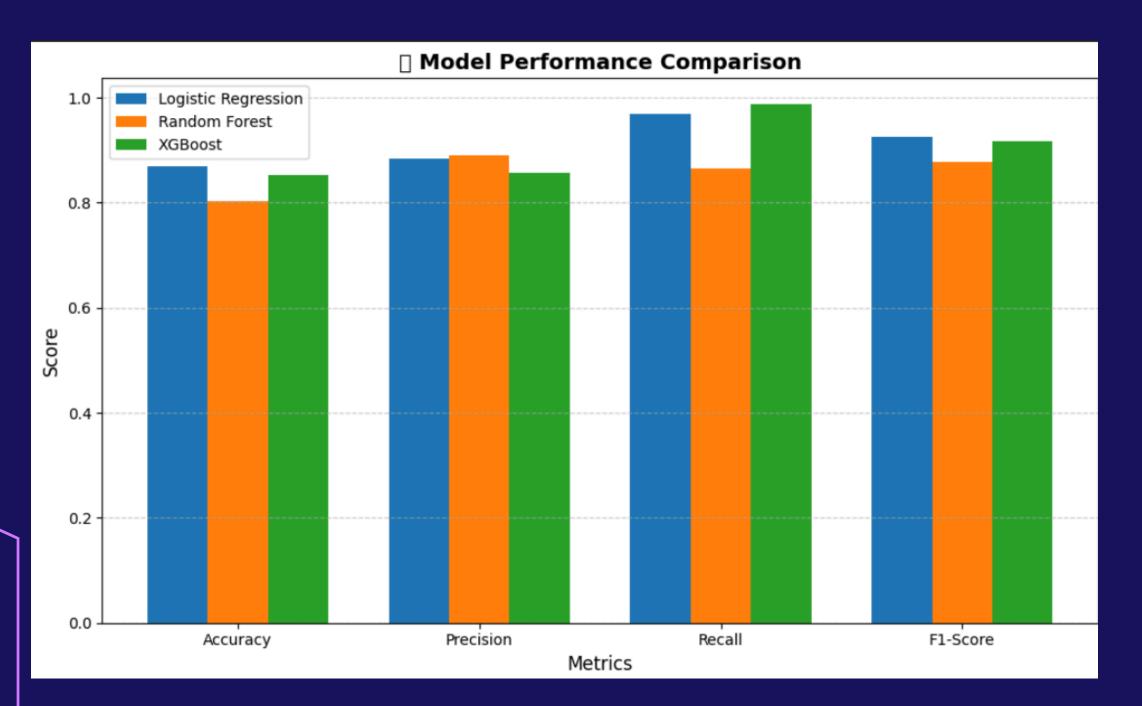


STAHEHOLDERS • Game Developers Marketing Team Product Managers • Players I Community Managers





MACHINE LEARNING MODELS



• Logistic Regression -

Accuracy =
$$88\%$$
 $+$ -

• Random Forest -

Accuracy =
$$91\%$$

• XGBoost -

Accuracy =
$$94\%$$

PROVING DUR SENTIMENT ANALUSIS IS THE RICHT SOLUTION

EVIDENCE BASED VALIDATION:

VISUALIZATION PROOF:

TESTED ML MODELS

SENTIMENT VVORD CLOUDS

CROSS VALIDATION

TOP FEATURE IMPORTANCE

HIGH ACCURACY

SHAP SUMMARY PLOTS



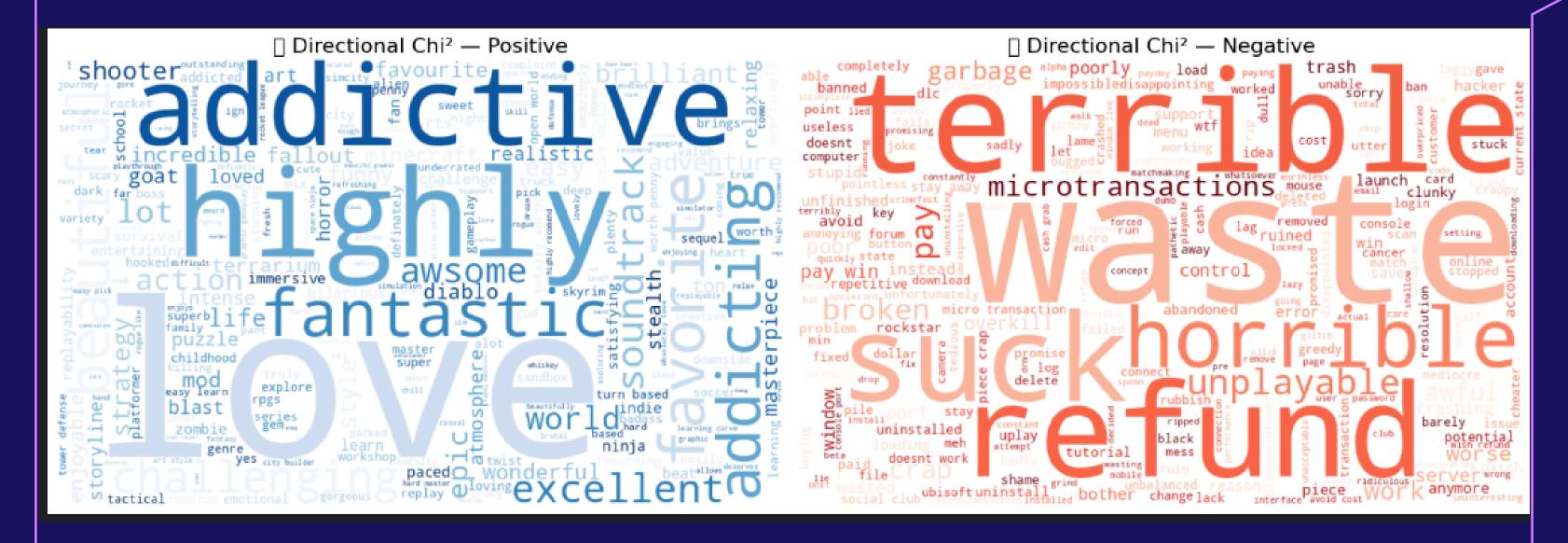
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SHAP ANALYSIS









MORD CLOUD



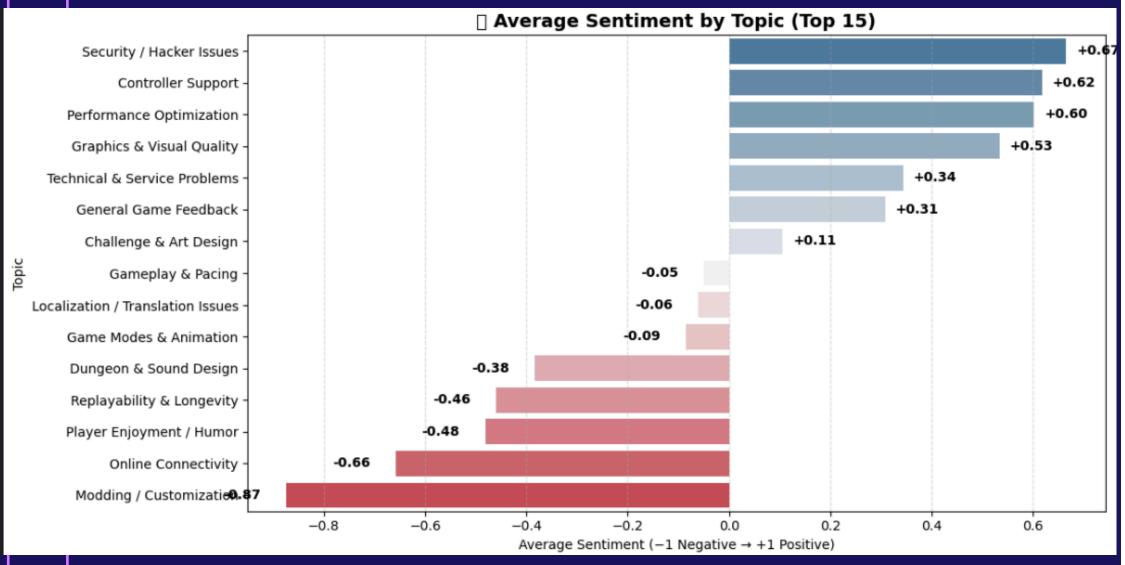


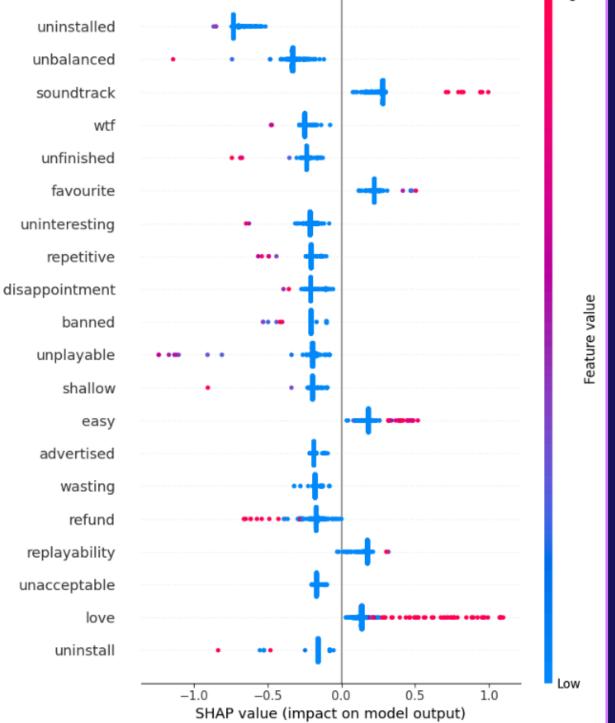






TOP WORDS / SHAP SUMMARL













RECOMMENDATIONS Prioritize fixes Promote marketing • Integrate Streamlit model • Monitor sentiment monthly



• Best Model: XGBoost • Impact on Developers • Multiple positive outcomes

