

# Week 7 Progress Report

DATA 450 Capstone

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Week ending: 3/9/25

## Time Log

Day	Time	# Hours	Task(s)	GH Commit(s)
Mon.				
Tue.				
Wed.				
Thu.	3-8pm	5	Q3; Researched ways to handle majority class sampling issue; worked with RandomUnderSampler from imblearn.under_sampling	<a href="#">Link</a>
Fri.	1-4pm, 5-9pm	7	Built predictive models	<a href="#">Link</a>
Sat.	10am-12pm, 3-6pm	5	Q4; Researched sentiment analysis; performed sentiment analysis on reviews; created word clouds for top 2 most popular games	<a href="#">Link</a>
Sun.				

Total # of hours worked this week: 17

## What you accomplished (or attempted) this week:

Worked on predictive models and tackled class imbalance issues using RandomUnderSampler. Researched sentiment analysis and applied it to game reviews. Created word clouds for the two most popular games.

**Any setbacks/roadblocks you experienced:**

Class imbalance caused predictive models to favor True Positives. Considered SMOTE but used RandomUnderSampler due to categorical data. Adjusted models for better balance.

**What you plan to work on next:**

Prepare for the presentation, refine analysis, expand sentiment analysis, and draft a blog post summarizing findings.

**Are you on track? If not, how will you get back on track?**

Yes, on track.