

**NLP CAPSTONE  PROJECT REPORT**

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**Interpretation & Analysis OF Emotional Arc of a Harry Potter Novel**

emotional tone shift across chapters:

Our sentiment analysis shows that the emotional tone in the novel shifts noticeably as the story progresses. The opening chapters carry a fluctuation of positive to negative emotional weight, especially in Chapters 2 and 4, where Harry’s mistreatment by the Dursleys and the unsettling revelations about his past create a tensed atmosphere. As the narrative advances, especially from Chapter 5 onwards, we observe a clear upward shift. Harry’s introduction to the magical world, new friendships, and his immersion into life at Hogwarts bring moments of joy, wonder, and excitement reflected in positive sentiment peaks on our plot.

However, this positivity is supressed with dips corresponding to confrontations, growing dangers, and dark mysteries.. The terrifying encounter in the Forbidden Forest and the death of the unicorn cause the emotional tone to its lowest depths hinting the cruelty of Voldemort in the 15 th chapter.Despite this dark turn, Rowling’s storytelling ensures that hope and triumph ultimately shine through, restoring a positive sentiment by the final chapter.

high/low emotional moments :

our combined textual and visual analyses highlight several standout emotional peaks and valleys High Moments: Harry’s first trip to Diagon Alley and entry into Hogwarts marked by spikes in positive sentiment. The formation of friendship with Ron and Hermione. Victories like Harry’s Quidditch success, symbolizing acceptance and personal triumph. Low Moments: Harry’s abusive life with the Dursleys, especially in early chapters. The death of the unicorn in the Forbidden Forest a chilling marker of dark magic’s return .

Our character frequency analysis reveals Harry, Ron, and Hermione appearing consistently in chapters with the highest positive sentiment scores. Their friendship is a stabilizing force amid chaos. On the darker end of the spectrum, Voldemort and Snape are most present when sentiment dips, especially in chapters with heightened tension or fear

Which characters show the most emotionally charged language?

Harry Potter stands at the center, his emotional journey reflecting bravery, wonder, and resilience against fear. it also reflected in emotional peaks shown in visuals of notebook. Ron Weasley brings humor, friendship, and moments of surprising bravery. Professor Snape is frequently linked with suspicion, hostility, and dark undertones it is reflected in the sentiment score of his dialogues. Hermione Granger consistently associates with intelligence, loyalty, and moments of personal courage it also reflected in high sentiment score in the passages containing her mentions but her dialogues containing words like no, jerk etc give some negative score to her speeches.

Does the story follow a traditional narrative arc?

The novel follows a classic story pattern, which we can see clearly in the data.It starts with the **exposition**, showing Harry’s hard life with the Dursleys. This sets a sad, quiet mood. Then comes the **rising action**, as Harry discovers the magical world, makes important friends, and starts solving the mysteries of Hogwarts. The **climax** happens when Harry faces Voldemort in the underground chambers the most exciting and intense part of the story. After that, the **falling action** and **resolution** bring the story to a close. Dumbledore explains things to Harry, and Harry goes back home. This brings back a sense of calm and prepares us for more adventures in the future. All these trends are reflected in our sentiment arc of novel.

Thank you…