



Project Initialization and Planning Phase

Date	15 october 2024	
Team ID	739823	
Project Title	Spooky Author Identification Using Deep Learning	
Maximum Marks	3 Marks	

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview		
Objective	The objective of spooky author identification is to determine the authorship of text excerpts by analyzing stylistic and linguistic features. This task often involves distinguishing between writings of authors known for their eerie or macabre themes, such as Edgar Allan Poe, Mary Shelley, or H.P. Lovecraft. The goal is to apply techniques in natural language processing and machine learning to classify text based on the unique writing patterns, tone, and vocabulary characteristic of each author, ultimately advancing our understanding of literary styles and authorship attribution.	
Scope	The scope of spooky author identification extends to various applications, including literary analysis, authorship verification, and enhancing digital humanities research. It enables the classification of historical texts, supports plagiarism detection, and fosters the development of educational tools for studying literary styles. Additionally, it holds potential in creative industries, such as generating author-inspired content and improving recommender systems for readers seeking works by similar authors. This field also serves as a testbed for advancing natural language processing and machine learning techniques in authorship attribution.	





Problem Statement		
Description	Spooky author identification involves determining the authorship of text excerpts written in eerie or macabre styles, typically associated with authors like Edgar Allan Poe, Mary Shelley, and H.P. Lovecraft. By analyzing linguistic features, tone, and stylistic patterns, this task uses natural language processing and machine learning techniques to attribute text to its rightful author. It combines literary analysis with modern computational methods, offering insights into unique writing styles while enabling practical applications like text classification, authorship verification, and stylistic mimicry.	
Impact	The impact of spooky author identification is significant in both academic and practical domains. It enhances the study of literary styles and authorship, contributing to the preservation and analysis of historical texts. In education, it provides tools for understanding the nuances of writing by iconic authors. Practically, it aids in plagiarism detection, content generation, and personalized recommendations for readers. Furthermore, it drives advancements in natural language processing and machine learning, influencing broader applications in text analysis and computational creativity.	
Proposed Solution		
Approach	The approach to spooky author identification uses natural language processing (NLP) and machine learning to analyze textual features like syntax, tone, and vocabulary. Preprocessing techniques prepare the data, and algorithms or models like SVMs or transformers classify text based on learned patterns. This approach ensures accurate attribution of authorship.	
Key Features	Key features of spooky author identification include analyzing linguistic patterns, such as word usage, sentence structure, and tone, to differentiate authors. It leverages stylistic markers like vocabulary richness, thematic elements, and emotional cues, combined with machine learning models, to accurately attribute eerie or macabre texts to specific authors.	





Resource Requirements

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	CPU/GPU specifications, number of cores	e.g., 2 x NVIDIA V100 GPUs		
Memory	RAM specifications	e.g., 8 GB		
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD		
Software				
Frameworks	Python frameworks	e.g., Flask		
Libraries	Additional libraries	e.g., tensorflow		
Development Environment	IDE, version control	e.g., Jupyter Notebook, Git		
Data				
Data	Source, size, format	e.g., Kaggle dataset, 10,000 images		