MSc project

A Study on Sentiment Analysis Techniques: Investigating Algorithms and Vectorization Methods

Project start: Mon, 1-22-2024

Display week: 1

TASK	DEPENDENCIES	PROGRESS	START	END
Literature Review				
Define research objectives		100%	2-4-24	2-8-24
Search for relevent literature		90%	2-8-24	2-10-24
Review and sumarize		90%	2-11-24	2-17-24
Write Literature Review		50%	2-18-24	2-21-24
Dataset Acquisition				
Identify relevant datasets	Literature review	100%	2-22-24	2-24-24
Obtain access to datasets	Literature review	100%	2-25-24	2-29-24
Download datasets	Literature review	90%	3-1-24	3-4-24
Data Preprocessing				
Handle special characters	Dataset Acquisition	25%	3-4-24	3-5-24
Tokenize text	Dataset Acquisition	0%	3-6-24	3-8-24
Remove stop words	Dataset Acquisition	0%	3-9-24	3-10-24
Lowercase text	Dataset Acquisition	0%	3-11-24	3-12-24
Algorithm Implementation				
Implement SVM algorithm	Data preprocessing	0%	3-13-24	3-17-24
Implement Naïve bayes algorithm	Data preprocessing	0%	3-18-24	3-22-24
Configure algorithm parameters	Data preprocessing	0%	3-23-24	3-27-24
Text Vectorization				
Apply TF-IDF vectorization	Algorithm Implementaion	0%	3-28-24	3-31-24
Apply Bag-of-Words vectorization	Algorithm Implementaion	0%	4-1-24	4-6-24
Model Training and Evaluation				
Train SVM Model	Text Vectorization	0%	4-7-24	4-13-24
Train Naïve Bayes Model	Text Vectorization	0%	4-14-24	4-20-24
Evaluate Model Performance	Text Vectorization	0%	4-21-24	4-21-24
Parameter Tuning and Optimization				
Perform Grid Search for SVM	Model Training and Evaluation	0%	4-22-24	4-26-24
Perform Grid Search for Naïve Bayes	Model Training and Evaluation	0%	4-27-24	5-1-24
Comparitive Analysis				
Compare SVM and Naïve Bayes performance	Parameter Tuning and Optimization	0%	5-2-24	5-5-24
Analyse Results	Parameter Tuning and Optimization	0%	5-6-24	5-10-24
Documentaion and Reporting	Comparitive Analysis	0%	5-11-24	5-18-24