Project Initialization and Planning Phase

Date	15 July 2024
Team ID	739839
Project Title	Airline Reviews Classification
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) report

Resource Requirements

Project Overview	
Objective	The objectives of airline review classification can vary depending on the specific goals of the stakeholders involved, such as airlines, customers, or researchers.
Scope	The scope of airline review classification is broad and involves a multidisciplinary approach, integrating data science, machine learning, natural language processing, and domain-specific knowledge to achieve meaningful and actionable insights.
Problem Statement	
Description	Airline review classification involves the systematic categorization and analysis of customer reviews related to airline services. This process leverages natural language processing (NLP) and machine learning techniques to extract meaningful insights.
Impact	A significant positive impact across various facets of an airline's operations and strategy. By systematically analyzing and responding to customer feedback, airlines can enhance customer satisfaction, operational efficiency, and overall business performance.
Proposed Solution	
Approach	It involves a systematic and methodical process encompassing data collection, preprocessing, feature extraction, model training, evaluation, and deployment.
Key Features	The key features are the specific attributes and functionalities that enable the effective analysis and categorization of customer reviews

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	T4 GPU
Memory	RAM specifications	8 GB
Storage	Disk space for data, models, and logs	1 TB SSD
Software		
Frameworks	Python frameworks	Flask
Libraries	Additional libraries	scikit-learn, pandas, numpy, matplotlib, seaborn
Development Environment	IDE	Google Colab, spyder
Data		
Data	Source, size, format	Kaggle dataset, 614, csv UCI dataset, 690, csv