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Academic Year: 2023-24	**BE Project Synopsis**	**Revision : 00 Dated : 20/11/2019**
Term – I	**Department: Artificial Intelligence and Data Science**	**Date of Preparation :**

Project Title	Airlines: We Seek Profit And Trust
Domain Name	Machine Learning and Data Science
Group Leader	Mr. Shivam Borse (19)
Group Member	Ms. Shraddha Lokhande (20) Mr. Sarvdnya Dhamale (52) Ms. Urmila Dholi (46)
Guide Name	Ms. Arti Singh

ABSTRACT:

In today's competitive aviation industry, airlines face the dual challenge of optimizing profitability while maintaining passenger trust. This project delves into the synergy between these two seemingly disparate goals, exploring the integration of machine learning techniques to achieve both financial success and enhanced customer confidence**.** Central to the project is the notion of trust, a pivotal factor influencing passengers' decisions in choosing an airline. By employing machine learning to enhance safety measures, personalize passenger experiences, and address customer concerns proactively, airlines can foster trust and loyalty among their clientele.

MOTIVATION:

- Operational Complexity
- Data Abundance
- Enhanced Decision-Making
- Operational Efficiency

OBJECTIVES:

- Optimize Operational Efficiency
- Accurate Demand Forecasting
- Safety and Risk Mitigation
- Data Driven Decision-Making

ARCHITECTURE DIAGRAM :

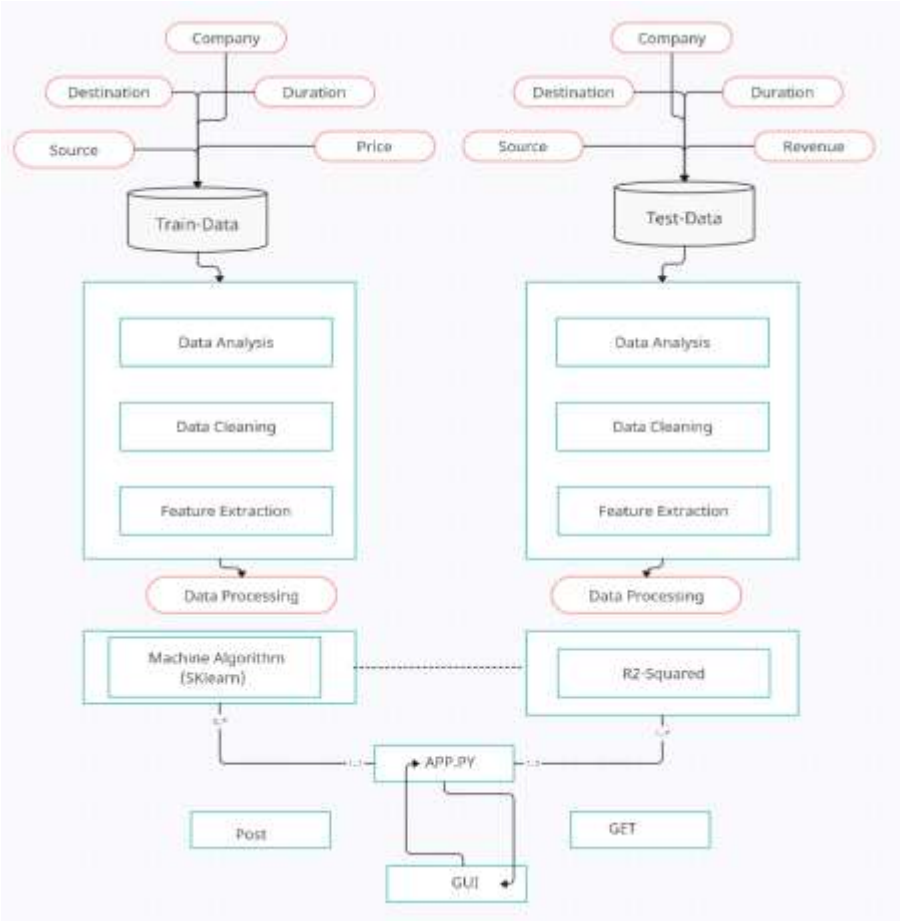

Fig 01 : Integration Diagram Of Project

APPLICATION AREAS :

- Demand Forecasting
- Predictive Maintenance
- Route Optimization
- Customer Trust
- Revenue Management .

CONCLUSION :

The development of more sophisticated algorithms and access to vast amounts of data has significantly improved the precision of flight trajectory predictions. This has led to benefits such as reduced fuel consumption, shorter travel times, and enhanced safety measures. Additionally, the integration of artificial intelligence and machine learning techniques has the potential to further refine trajectory predictions and adapt to changing conditions in real-time. It will remain a critical component of the aviation and aerospace industries, contributing to their ongoing growth and evolution.

Name and sign of the student

Mr. Shivam Borse (19)

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