INTERNSHIP PROJECT REPORT

Project Title: Titanic Survival Prediction Using Machine Learning

Name: Kartik Kapse

Domain: Data Science & Analytics

Company: _____

Internship Duration: _____

1. Introduction
This project focuses on predicting the survival of Titanic passengers using Machine Learning techniques. Logistic Regression was used to classify whether a passenger survived or not based on available features.

2. Objective
To build a machine learning model that predicts passenger survival using historical Titanic data.

3. Dataset Description
The Titanic dataset contains 891 records with features such as Age, Sex, Passenger Class and Fare.

4. Tools & Technologies
Python, Google Colab, Pandas, NumPy, Scikit-learn

5. Methodology
Data Cleaning, Feature Encoding, Train-Test Split, Model Training, Model Evaluation

6. Machine Learning Model
Logistic Regression was chosen as it is suitable for binary classification problems.

7. Results
The model achieved approximately 80% accuracy with good precision and recall scores.

8. Conclusion
The project successfully demonstrates the application of machine learning techniques for predictive analysis.

9. Future Scope
Advanced algorithms and deployment can further improve the project.

10. References
- Kaggle Titanic Dataset
- Scikit-learn Documentation
- Python Official Documentation