ASSIGNMENT 15 – PROJECT FINALIZATION

Name: Aman Nadeem
Roll No: 02
Course: Applied Data Science with AI
Week: 15

Project Finalization and Submission Readiness

This assignment represents the final stage of the Customer Churn Prediction work. By this stage, all major components of the project have been successfully completed, including data collection, data cleaning, exploratory data analysis, model training, model evaluation, explainability, and deployment.

The draft report has been reviewed to ensure clarity, proper structure, and smooth flow between sections. The report begins with an overview of the problem and dataset, followed by data preprocessing and analysis. Machine learning and deep learning models are then discussed along with their evaluation metrics. Explainability and deployment sections were added to demonstrate real-world usability of the model.

Minor improvements were made after peer review, such as simplifying explanations, reducing unnecessary repetition, and ensuring consistent formatting throughout the document. The language was kept clear and student-friendly while maintaining a professional tone.

GitHub Repository Finalization

The GitHub repository has been finalized and organized according to weekly assignments. Each assignment is stored in a separate folder with appropriate notebooks, datasets, and screenshots. The repository also

includes a cleaned dataset and a clear README file describing the project workflow.

This structured organization makes the project easy to understand, review, and reproduce.

Project Completion Status

✓ Draft report completed

✓ GitHub repository finalized

✓ End-to-end pipeline implemented

✓ Model explainability added

✓ Model deployment demonstrated

Conclusion

At this stage, the project is fully prepared for final submission. The complete end-to-end pipeline demonstrates the practical application of data science and AI concepts learned throughout the course. The project is ready for evaluation and future improvements if required.

GitHub Repository

https://github.com/amannadeem126/Customer-Churn-Prediction