

Tata Data Analytics Virtual Internship 2025 – Task 2

This repository contains my submission for **Task 2** of the **Tata Data Analytics Virtual Internship 2025**, focused on **predictive modeling** using the **Geldium dataset**. This task builds on insights from Task 1 (EDA) and applies GenAI-powered methods to design a responsible and explainable credit risk model.

🚀 Task Objective

To create a structured predictive modeling plan that helps identify customers at risk of **delinquency**, using AI/ML approaches supported by GenAI tools.

Key objectives included:

- ✓ Developing model logic for binary classification (delinquent or not)
- ✓ Selecting and justifying the appropriate model (Logistic Regression)
- ✓ Planning for model evaluation using industry-standard metrics
- ✓ Addressing ethical considerations: bias, fairness, and explainability

🔧 Tools & Platform Used

- **GenAI tools** like ChatGPT & Gemini (for logic generation and refinement)
- **Prompt-driven modeling approach**
- **Microsoft Word** – final plan drafted and formatted for submission
- Dataset provided via **GNI platform**

📄 GenAI Prompt Used

"Suggest a predictive modeling approach for credit delinquency using features like income, credit score, and missed payments. Explain model choice and evaluation metrics."

Files Included

- Geldium_Task2_Model_Plan.docx – Final model plan including logic, justification, evaluation, and fairness considerations
- README.md – Overview of the task, methodology, and prompt used

About the Internship

This task is part of the **Tata Data Analytics Virtual Internship 2025**, designed to equip learners with practical experience in using GenAI to solve real-world business problems, especially in the financial services sector.