



Project Title	Money-Laundering Prevention
Technologies	Machine Learning
Domain	Finance
Project Difficulties level	Intermediate

Problem Statement:

Through machine learning we can identify the patterns for every consumer that may lead to money laundering like transferring money to foreign banks, big deposits, transaction patterns etc.

Dataset:

You can collect your own dataset from different companies which provide data related to financial crimes.

In 2020 there is a research paper was released related to Money Laundering called

Machine learning methods to detect money laundering in the Bitcoin blockchain in the presence of label scarcity . There they have used a dataset released by a company called Elliptic which is dedicated to detecting financial crime in cryptocurrencies. You can find the demo dataset in the [drive folder](#)

Project Evaluation metrics:

Code:

🔗 You are supposed to write a code in a modular fashion

🔗 Safe: It can be used without causing harm.

🔗 Testable: It can be tested at the code level.

🔗 Maintainable: It can be maintained, even as your codebase grows.

🔗 Portable: It works the same in every environment (operating system)

🔗 You have to maintain your code on GitHub.



🔗 You have to keep your GitHub repo public so that anyone can check your code. 🔗 Proper readme file you have to maintain for any project development.

🔗 You should include basic workflow and execution of the entire project in the readme file on GitHub

🔗 Follow the coding standards: <https://www.python.org/dev/peps/pep-0008/>

Cloud:

🔗 You can use any cloud platform for this entire solution hosting like AWS, Azure or GCP

API Details or User Interface:

🔗 You have to expose your complete solution as an API or try to create a user interface for your model testing. Anything will be fine for us.

Logging:

🔗 Logging is a must for every action performed by your code use the python logging library for this.

Ops Pipeline:

🔗 If possible, you can try to use AI ops pipeline for project delivery Ex. DVC, MLflow , Sagemaker , Azure machine learning studio, Jenkins, Circle CI, Azure DevOps , TFX, Travis CI

Deployment:

🔗 You can host your model in the cloud platform, edge devices, or maybe local, but with a proper justification of your system design.

Solutions Design:

🔗 You have to submit complete solution design strategies in HLD and LLD

document **System Architecture:**

🔗 You have to submit a system architecture design in your wireframe document and architecture document.



Latency for model response:

櫻 You have to measure the response time of your model for a particular input of a dataset.

Optimization of solutions:

櫻 Try to optimize your solution on code level, architecture level and mention all of these things in your final submission.

櫻 Mention your test cases for your project.

Submission requirements:

High-level Document:

You have to create a high-level document design for your project. You can reference the HLD form below the link.

Sample link:

[HLD Document Link](#)

Low-level document:

You have to create a Low-level document design for your project; you can refer to the LLD from the below link.

Sample link

[LLD Document Link](#)

Architecture: You have to create an Architecture-document design for your project; you can refer to the Architecture from the below link.

Sample link

[Architecture sample link](#)



Wireframe: You have to create a Wireframe-document design for your project; refer to the Wireframe from the below link.

Demo link

[Wireframe Document Link](#)

Project code:

You have to submit your code GitHub repo in your dashboard when the final submission of your project.

Demo link

[Project code sample link :](#)

Detail project report:

You have to create a detailed project report and submit that document as per the given sample.

Demo link

[DPR sample link](#)

Project demo video:

You have to record a project demo video for at least 5 Minutes and submit that link as per the given demo.

Demo link

[Project sample link :](#)

The project LinkedIn a post:

You have to post your project detail on LinkedIn and submit that post link in your dashboard in your respective field.

Demo link

[Linkedin post sample link :](#)