# Phishing Attack Domain Detection

Overview

This project focuses on solving the most common cyber attack called phishing. Phishing is a type of social engineering attack often used to steal user data, including login credentials and credit card numbers.

In the previous HLD and LLD documents we discussed the problem statement and the technical solution we are trying to build for it. In this 'Detailed Project Report', we'll discuss other aspects of the project like Resources,Budget and Timelines
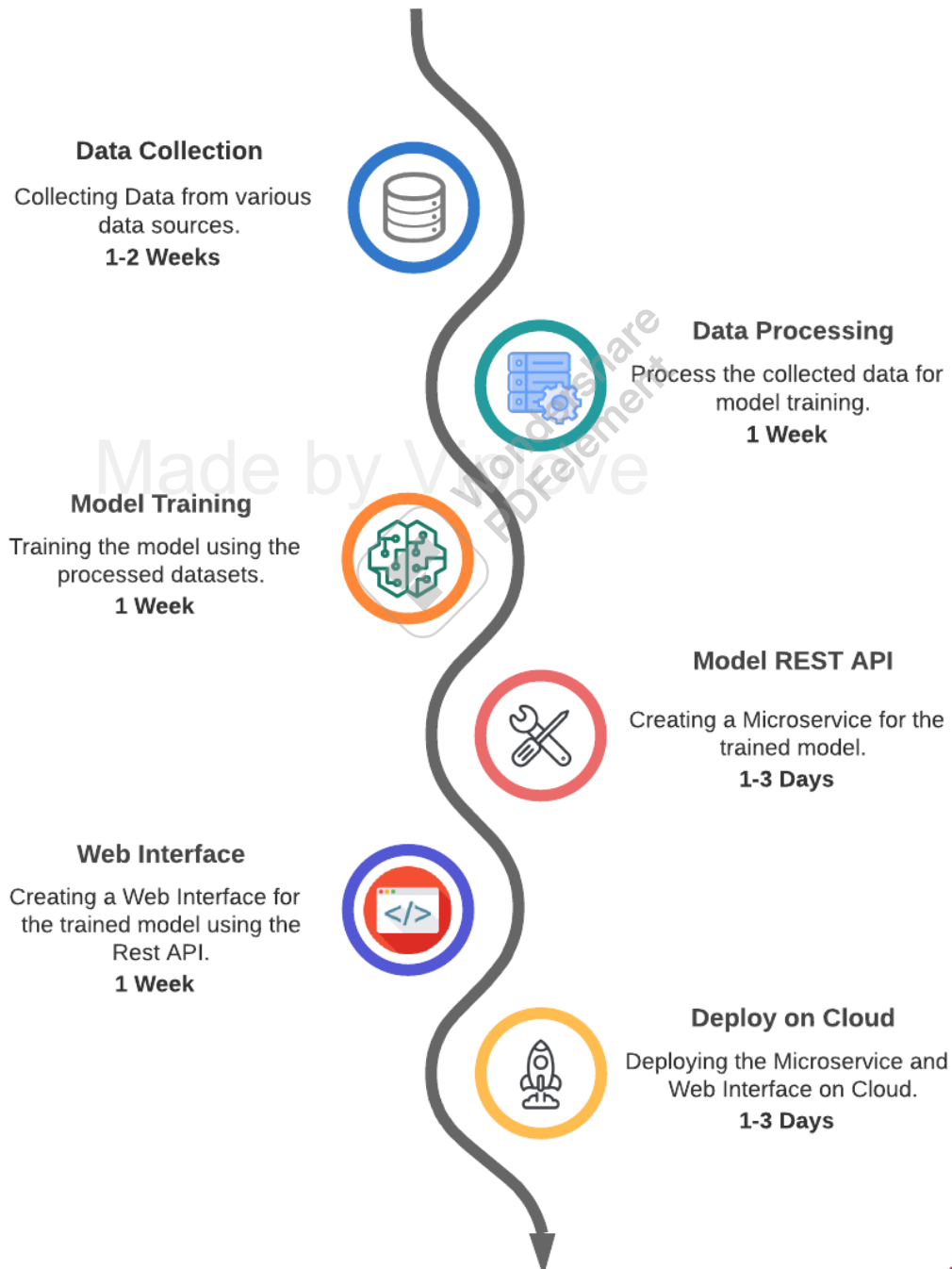
1.Project Operations

As discussed in previous documents, below are the series of tasks to be completed in this project.
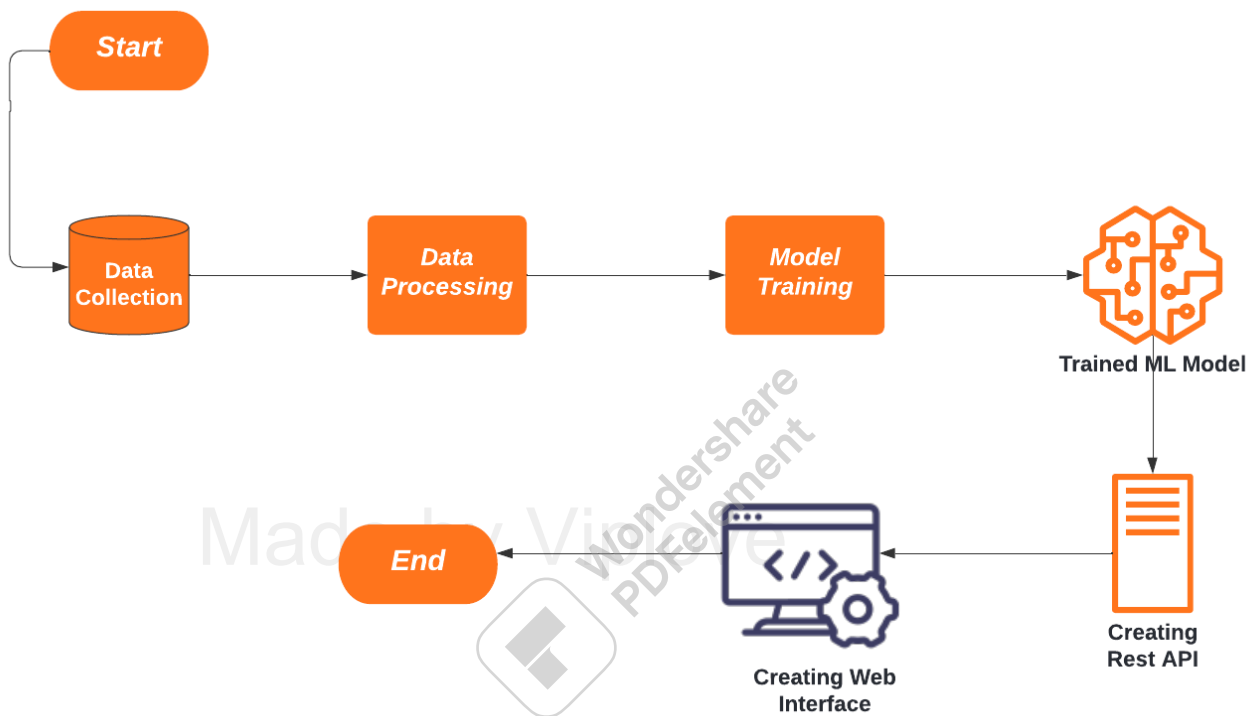
Each task is to be performed in a sequential manner as each is dependent on the result of its previous task. Also for maintaining quality of the project, developers are allowed to iterate through the loop until they reach a satisfactory project result.

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2.Project Timeline

The below diagram describes the amount of time needed to successfully complete each task in the workflow. In total the total amount of time needed to complete the project is approximately 3-4 Weeks.

Data Collection

Collecting Data from various data sources.
1-2 Weeks

Data Processing

Process the collected data for model training.
1 Week

Model Training

Training the model using the processed datasets.
1 Week

Model REST API

Creating a Microservice for the trained model.
1-3 Days

Web Interface

Creating a Web Interface for the trained model using the Rest API.
1 Week

Deploy on Cloud

Deploying the Microservice and Web Interface on Cloud.
1-3 Days

3.Project Budget

The most promising aspect of a software project is that the Marginal cost is almost zero, and it's very easy to get started with only a small budget.

Below are the costs for some of the resources and tools we'll be using in this project. Note that we'll not be accounting for any employee or service cost as it's relative to each employer.

Data Collection (Cost : 0$)

For this phase of our project we will mostly be using free public datasets so there is not cost to be accounted here.

Data Processing & Model Training (Cost : 10-15$)

Dealing with large datasets and training production-ready models also comes with expensive computational needs, therefore we'll be using special cloud services which provide high computation GPU environments for dealing with such tasks. We'll mostly likely be using cloud services like Google Colab or AWS sagemaker.

Deployment Services (Cost : 10-15$)

For deployment of our model we'll be using cloud services which will host our models. At the start since we don't have many users,we may not be charged for hosting our services, but as our users grow our costs will also rise per usage. We'll be using Heroku or AWS cloud services for our project.

Overall the total developmental budget needed for this project (not counting service charge which is relative to each employer) is approximately about 30-50$.