Welcome to the Python ML Internship! This internship is designed to enhance your skills in machine learning and data analysis through a series of minor and major projects. To ensure clarity and understanding, please review the following instructions carefully:

Github Repository Link: https://github.com/aiclub-igdtuw/AIMLMonth2023/tree/main

Minor Project

1. EDA - Exploratory Data Analysis:

- During Week 3, you will be assigned a specific problem statement that requires you to perform EDA- Exploratory Data Analysis. You are expected to work individually on the assigned problem statement.
- Find your assigned Problem Statement here- https://drive.google.com/file/d/1hPoETqUiFIYgajeLy9nugkDfwnn0Ni1X/view?usp=sharing
- You can choose to use either Google Colab or Jupyter Notebook for your work.
- You need to visit the Github repository (the link of the same is provided above). In the Minor Project folder open the ProblemStatement.md file. Visit your specific problem statement.
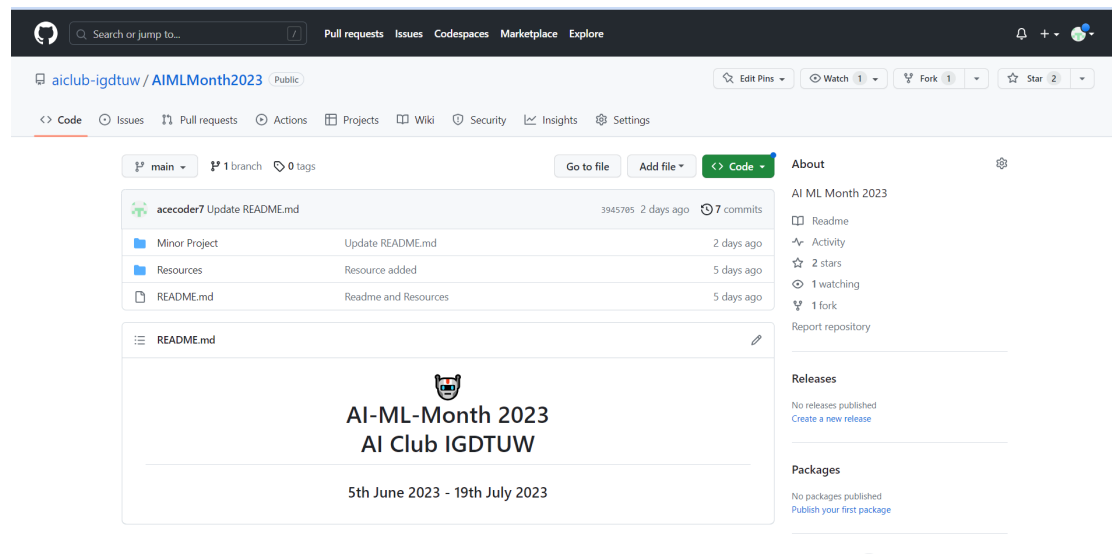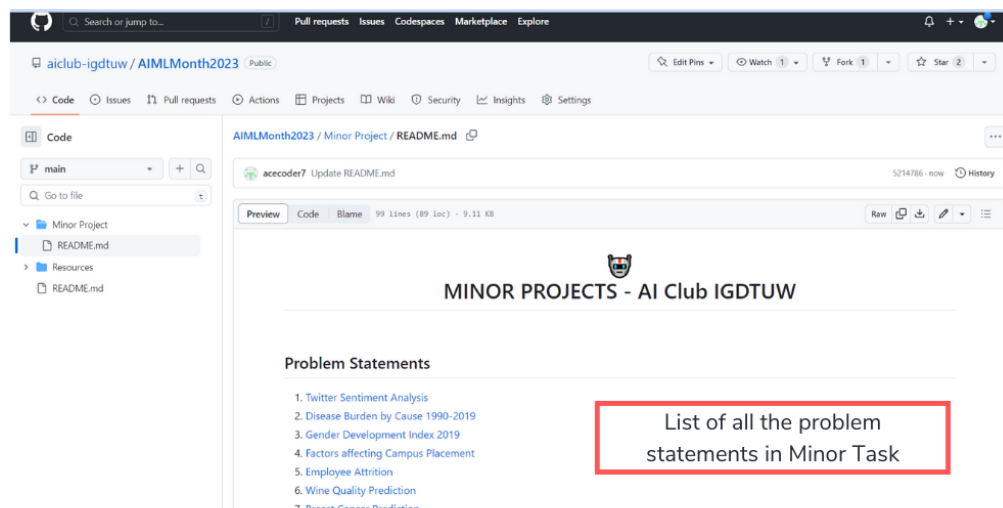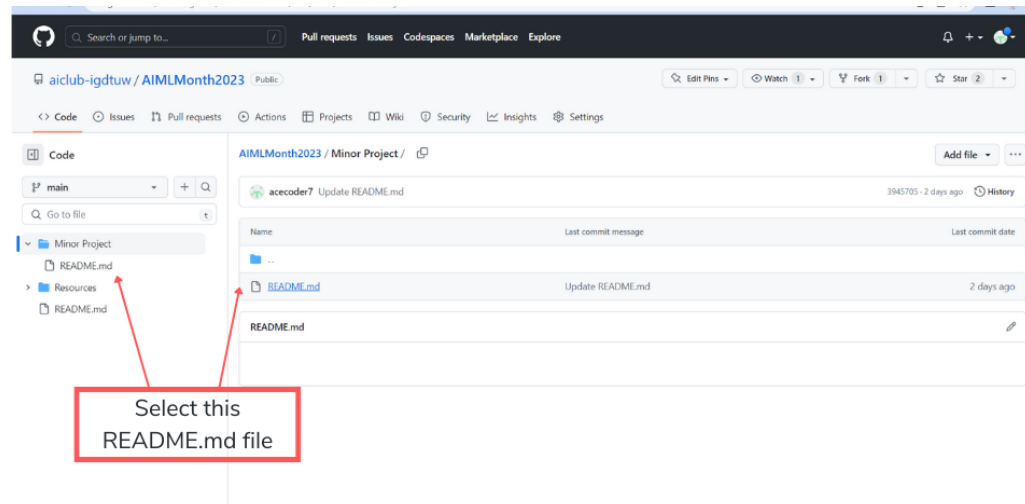
- Each problem statement will consist of a clear problem description and a link to the related dataset. For each problem, you will be provided with five questions or tasks that will guide your EDA process.
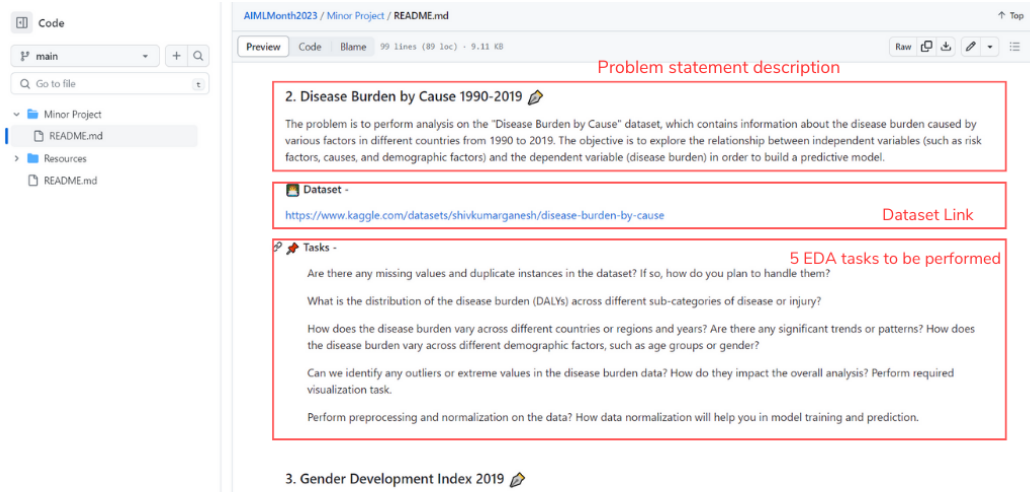
- Utilize your data analysis skills and learnings and write necessary code and perform calculations and data visulatizations as required. For each question, provide a comprehensive explanation of your observations and insights.
- Summarize your findings in a text cell following each question in the Google Colab/Jupyter notebook.
- Follow this **template for submission** (use similar template for Jupyter Notebook). Rename it as <Roll No.>_<Full Name>_MinorProject (eg. 23001_Harshita Deep_MinorProject)

  https://colab.research.google.com/drive/1Ayd5GG4qyLpIqfT_YTXQupqpPCqQwpVd?usp=sharing

- The **deadline** for submitting the Minor Project is ___2nd July, Sunday___.
- To understand the submission process, please refer to the **instructional video** provided.

  https://drive.google.com/file/d/12AXwiMD-pMBUACCjW_Wkbhwj0isXbVq2/view?usp=sharing

- For additional practice, you may refer to the other problem statements available in the GitHub repository.
- It is important to **work individually** on the assigned problem statement.

2. Extension of EDA task - Classification/Regression:

- You will continue working on the problem statement assigned to you in Week 3.
- Determine whether the problem requires classification or regression analysis. Implement the appropriate classification or regression techniques on the dataset.
- Your evaluation will be based on your ability to select suitable models, execute effective training, and utilize appropriate evaluation metrics.
- Use same submission template-

  https://colab.research.google.com/drive/1Ayd5GG4qyLplqfT_YTXQupqpPCqQwpVd?usp=sharing

- The **deadline** for submitting the Minor Project is ___2nd July, Sunday___.

Major Project

- The major project will be assigned during Week 5.
- For the major project, you will form **teams consisting of three members**.
- Communication among team members is crucial to ensure effective collaboration.
- Each team will select a theme or domain related to Machine Learning, AI, Computer Vision and Deep Learning. Some 14-15 themes will be provided to you.
- Your major project should be a research-focused endeavor within your chosen domain.
- Over the course of the internship, you will work on and complete the major project, culminating in a research paper.

Successful completion of all tasks, including the minor project, major project and the research paper, will make you eligible to receive an internship completion certificate. Please adhere to the provided submission procedures and the specified deadlines for each task. If you have any questions or need additional clarification, please feel free to contact us or refer to the instructional videos provided. We are here to support you throughout your internship journey.