**PROJECT DIARY – JUNE 2025**

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| **Class:** MSc Data Science | | | | | **Trimester:** IV | |
| **Course Code/Title: MDS481 – Web Project-I** | | | | | | |
| **Name:** Utkarsh Misra  **Team Members:** Priangshu Paul , Puspita Biswas | | | **Register No.:** 2448370 | | | |
| Guide’s Name: Dr. Jayapriya J. | | | | | | |
| **Date** | **Task Planned** | **Task Completed** | | **Resources Info/Link** | | **Comments/**  **Remarks** |
| 04-06-25 | Course Plan discussed | Course Plan discussed | | Course Plan discussed | |  |
| 06-06-25 | Orientation | Orientation | | Orientation | |  |
| 09-06-25 | Introduction | Introduction | | Introduction | |  |
| 10-06-25 | Selection of the domain | Yes | | Concept of Green AI-ML/DL model | |  |
| 10-06-25 | Collection of resources | No | | Google Scholar, Springer, Google Datasets | |  |
| 11-06-25 | Collection of resources | No | | Google Scholar, Google datasets | |  |
| 13-06-25 | Collection of resources | Yes | | Google Scholar, Springer, datasets | |  |
| 14-06-25 | Started reading the first paper(Tracking Carbon emissions of ML models) | No | | eco2ai researchgate.net | |  |
| 16-06-25 | Started reading the first paper(Tracking Carbon emissions of ML models) | No | | eco2ai researchgate.net | |  |
| 17-06-25 | Started reading the first paper(Tracking Carbon emissions of ML models) | No | | eco2ai researchgate.net | |  |
| 17-06-25 | Started reading the first paper(Tracking Carbon emissions of ML models) | yes | | eco2ai researchgate.net | |  |
| 18-06-25 | Preparation of Final Abstract | Yes | | LMS-Moodle | |  |
| 20-06-25 | Second paper started (Forecasting Global CO2 emissions with ML) | No | | Google Scholar | |  |
| 23-06-25 | ABSENT | ABSENT | | ABSENT | |  |
| 24-06-25 | Second paper(Forecasting Global CO2 emissions with ML) | Yes | | Google Scholar | |  |
| 24-06-25 | ABSENT | ABSENT | | ABSENT | |  |
| 25-06-25 | Third Paper(Carbon Tracker: tracking and predicting DL Carbon footprint) | No | | Google Scholar | |  |
| 27-06-25 | Third Paper(Carbon Tracker: tracking and predicting DL Carbon footprint) | Yes | | Google Scholar | |  |
| 28-06-25 | Fourth paper summarization (Measuring and reduction carbon footprint in model training and deployment) | Yes | | Google Scholar | |  |
| 30-06-25 | Discussion with team mates about the 3 libraries found in papers(eco2ai, codecarbon, carbontracker + the website tools) | Yes | | Nil | |  |
| **PROJECT DIARY – JULY 2025** | | | | | | |
| 1-07-25 | Preparation of Synopsis of Green AI Comparometer | No | | Submitted on Moodle | |  |
| 1-07-25 | Preparation of Synopsis of Green AI Comparometer | Yes | | Submitted on Moodle | |  |
| 2-07-25 | Looking for tools to build carbon emission comparison web based tool for ML/DL models | Yes | | Flash API , Streamlit , HTML, etc (Frontend and backend) | |  |
| 4-07-25 | Learning the basis of the tools required for building web based tool | No | | Nil | |  |
| 5-07-25 | Learning the basis of the tools required for building web based tool | Yes | | Nil | |  |
| 7-07-25 | Preparation of SRS | Yes | | Submitted on Moodle | |  |
| 8-07-25 | Building a Prototype frontend to get an idea of how our web based tool will look | No | | Nil | |  |
| 8-07-25 | Building a Prototype frontend to get an idea of how our web based tool will look | Yes | | Nil | |  |
| 9-07-25 | Checking whether eco2ai python library working on normal PC or not with a normal DL code(ANN) | Yes | | Installing the eco2ai library and running the code on it | |  |
| 11-07-25 | Checking whether codecarbon python library working on normal PC or not with a normal DL code(ANN) | Yes | | Installing the codecarbon library and running the code on it | |  |
| 12-07-25 | Checking whether CarbonTracker python library working on normal PC or not with a normal DL code(ANN) | Yes | | Installing the CarbonTracker library and running the code on it | |  |
| 14-07-25 | ABSENT | ABSENT | | ABSENT | |  |
| 15-07-25 | Checking these libraries on different codes (other than ANN) | Yes | | Nil | |  |
| 15-07-25 | Finding other website based tools based on similar concept of tracking carbon emission of computation | Yes | | Green Algorithms , Machine Learning CO2 impact calculator | |  |
| 16-07-25 | Preparing a app.py file for backend(end results+ analysis of code | No | | Nil | |  |
| 18-07-25 | Preparing a app.py file for backend(end result +analysis of code) | No | | Nil | |  |
| 21-07-25 | ABSENT | ABSENT | | ABSENT | |  |
| 22-07-25 | Instead of merging everything in one file deciding to make a web based tool for single libraries and then integrating them into single web based tool | No | | Visual Studio code | |  |
| 22-07-25 | Making a eco2ai\_runner.py file | Yes | | Visual Studio code | |  |
| 23-07-25 | Making eco2ai\_web\_tool.py | Yes | | Visual Studio code | |  |
| 25-07-25 | Styling the all the web tool files as per our theme and as per our requirement + updation project diary | Yes | | CSS, Html | |  |
| 26-07-25 | Preparing the system design | Yes | | Submitted on Moodle | |  |
| 28-07-25 | Seminar | Seminar | | Seminar | |  |
| 29-07-25 | Preparing the CSS of the tools and the front | No | | Code | |  |
| 29-07-25 | Preparing the CSS of the tools and the front | No | | Code | |  |
| 30-07-25 | Frontend for the Home page | No | | Code | |  |
| **PROJECT DIARY – AUGUST 2025** | | | | | | |
| 1-08-25 | Preparation of PPT and presented to non Guide Faculty | Yes | | Moodle | |  |
| 2-08-25 | Presentation + worked on backend | No | | Nil | |  |