**Data Science Project 7PAM2002-0509-2023**

**Semester C 2023**

**Logbook (Activities and GitHub submissions)**

**Student Name and ID: Ahsan Farooq 22080535**

**Project Title:** **Innovative Deep Learning Models for Brain Tumour Diagnosis Using MRI Imaging**

**Supervisor: Vandana Das**

**Student GitHub URL: https://github.com/AhsanFarooq00/Innovative\_Deep\_Learning\_Models\_for\_Brain\_Tumor\_Diagnosis-.git**

**Number of versions of the code submitted on GitHub:**

**User documentation has been submitted on GitHub: YES / NO**

**Student GitHub URL has been shared with markers: YES / NO**

**Log of Activities**

**Must record attendance at lectures and supervisions**

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| --- | --- | --- | --- | --- |
| **Week** | **Date** | **Activity**  **incl. lectures & supervisions** | **Reason if not attend lecture or supervision** | **Weekly project progress.**  **How lecture/supervision was helpful to your project.** |
| 1 | 30 May | Supervision1 |  | Have decision on the topic and the why I selected the topic |
| 2 | 4Jun | Lecture 1 |  | Lecture On Data Ethics Part A |
| 3 | 6 Jun |  |  | Selection of the data set from the Kaggle and also the segregation of the data and the supervisor also advice to look the different dataset and show me the example and also guide us about the ethical data |
| 4 | 12 Jun | Supervision2 |  | Preparing the presentation of the project and started the project and have the advice from the supervisor the make the objective clear and also summarize them |
| 5 | 17 Jun | Lecture 2 |  | Lecture On Data Ethics Part B |
| 6 | 25 Jun | Supervision3 |  | I have done the image processing and importing library loading data set and image distribution and also the augmentation of the images and have an advice from the mam to maintain the Logbook and also have the flow chart of the work and also discuss the model which we are using |
| 7 | 3 July | Lecture 3 |  | Quiz on Data Ethics |
| 8 | 3 July | Supervision4 |  | Have maintained my GitHub repo and all the missing I the commits and their version and also complete the missing log book prepare the quiz of data ethics and also done the learning and work on the CNN architecture and flow chart |
| 9 | 10 July | Supervision5 |  | Enhanced the CNN model and got the accuracy of 72% and the model is done and now I will start working into the increase of the model accuracy |
| 10 | 15 July | Supervision6 | Could not attend the session due to illness I was in the hospital due to kidney stone pain |  |
| 11 | 9 Aug | Supervision7 |  | Mock Viva of Project |
| 12 |  |  |  |  |
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**Log of GitHub Submissions**

**Record the versions of code and user documentation submitted on GitHub**

|  |  |  |
| --- | --- | --- |
| **Date** | **Filename and version submitted to GitHub** | **Description of code and/or documentation submitted (what has been added since the previous version).** |
| 4 June | Initial Commit | Have I upload the setup of the code and set my GitHub repo |
| 18 Jun | Version 1.1 | Uploaded all the libraries a and the colab note book with google drive import image in the array and save them in the code and difference them |
| 30 Jun | Image Augmentation | Done the work until the image augmentation |
| 4 August | Done till the training of data | All the other work done like the image augmentation splitting and distributing data |
| 9 Augest | Modifying of the code | Modified the code make all the commits and the improve the code and worked on the CNN model |
| 16 August | Complete the code with CNN and transfer learning | The CNN model is complete, and the accuracy is almost75% |
| 26 August | Version 1.0 Completed | Upload the report and the improved code into the GitHub repo |
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