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

**Semester C 2023**

**Logbook (Activities and GitHub submissions)**

**Student Name and ID: Shivakumar Pole and 21066186**

**Project Title:** Comparison of Ensemble Machine Learning Algorithms vs Individual Machine learning Algorithms for House price prediction

**Supervisor: William Cooper**

**Student GitHub URL:**

**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 | 27/05/2024 | Lecture 1 |  | On this day, I have first supervisor meeting. I, discussed and explained about my project idea. My project is based on house price prediction using machine learning. I, given overview of my project. Supervisor suggested how to proceed and explained how to work on it. Clarified few questions like how to collect the data, what kind of steps, I need to take while doing a final project. |
| 2 | 03/06/2024 | Lecture 2 |  | On this day, I have second supervisor meeting.  I have gathered the dataset from Kaggle and started working on it. Did a list, what kind of machine learning needed for my project. Supervisor suggested that I need to prepare a PDM (project and data management) plan. According to the marking criteria. And also mentioned I have PDM talk on my project, coming next week. Explained how to talk in |
|  |  |  |  | PDM plan. That really helped me for the preparation. |
| 3 | 10/06/2024 | Lecture 3 |  | On this day, I did presentation to my supervisor regarding my project. The PDM talk was successful and supervisor asked few questions. Which really helpful for me for upcoming progress in my house price prediction project. Later, PDM talk supervisor asked about the EDA and literature Review. |
| 4 | 01/07/2024 | Lecture 4 |  | By this day, I have completed EDA and literature review. Doing good progress on fitting models. Supervisor asked about data pre-processing and outliers. I cleaned the data and started building models. Supervisor suggested more details needed on fitting models. That should be included in my project. |
| 5 | 22/07/2024 | Lecture 5 |  | On this day, I have mock viva with supervisor. By this, I finished 70 percentage of my overall project. Completed report and just need few changes in code part. I have shown my project and report to supervisor. Then he suggested to remove few topics from my report which are no needed in the and suggested report should be less than 7500 words. |
| 6 | 12/08/2024 | Lecture 6 |  | By this day, I need to complete my overall project with code and submit the draft to supervisor. I have submitted my draft to supervisor. Later, he suggested to prepare well for the final viva and explained more detailed about how well I need to prepare for it. Suggested to submit the FPR in time without fail. |
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# Log of GitHub Submissions

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

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| **Date** | **Filename and version submitted to GitHub** | **Description of code and/or documentation submitted (what has been added since the previous version).** |
| Jul 1 | a06387a854deabb9e7a289202fa9a927e8e83d47 | Initial code with the data exploration |
| Jul 1 | 1b13bc2e5c56953c27456a7a48ee8bb19d7a6c97 | Code with data pre processing |
| Aug 5 | e8e7894ffedbfda05aa2744541740701ddaa8d19 | Code with model building |
| Aug 27 | 1ad379271b72c24a9a1fe7b855d3856b50b6a925 | Code with model testing and model tuning |
| Aug 27 | 6869a1e27b903fb1ca61b6322c616b6029d3b464 | Streamlit application building |
| Aug 27 | 94be2683f28d8abeacc2058e944c99382bebd51d | Streamlit application testing |
| Aug 28 | 3d1eb1fe17dda7545afb65433f0e5c4f2359ec67 | Final changes to run code on the local machine |
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