| **Group Number** | **8** |
| --- | --- |
| **Project Title** | **Analysis of Experimental Designs on Alzheimer's Disease** |

**Group Members and Contribution Details**

| **Sno** | **Roll Number** | **Name** | **E-mail** | **Contribution in this work (write your contribution in this work such as task done, tools explored, knowledge gained and presented, etc.)** |
| --- | --- | --- | --- | --- |
| 1 | 19803021 | Pranav Gupta | 19803021@mail.jiit.ac.in | **Tasks done:** data cleaning, feature selection using chi-square and logistic regression, Encoding the dataset, Calculation of y value by grouping the data, transforming result into excel spreadsheet for next steps.  **Tools Explored:** google colab python notebook, Google sheets  **Knowledge gained:** analysing features and transforming dataset into experimental design table (calculation of y value) |
| **2** | 19803019 | Garvita Nagpal | 19803019@mail.jiit.ac.in | **Tasks done:** Replacing in Excel, Creating the sign table for full factorial design, calculating effects, variations, percentage variations, total variation, assigning in order of decreasing variation, comparing the two designs and finding a concluded result.  **Tools Explored**: google Colab python notebook, Google sheets.  **Knowledge Gained:** Understanding the performance evaluation techniques, sign table method, comparative analysis |
| **3** | 22303001 | Sushrut Khajuria | 22303001@mail.jiit.ac.in | **Tasks done:** Read the research papers related to Alzheimer's disease, analyzed design patterns like fractional and full factorial design methods and understood their application for the dataset ,presented the obtained results in a formatted report with proper tables and snapshots of the code.  **Tools Explored :** Google Sheets , Google Docs  **Knowledge Gained:** understood fractional and full factorial experimental design methods, table presentation in Excel, and Report presentation. |

**Declaration**

**I/We hereby declare that this submission is my/our own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text. I/We accept the use of the material presented in this report for Education/Research/Teaching purpose by the faculty.**

| **Signature** | **Signature** | **Signature** |
| --- | --- | --- |
| **Name:** Pranav Gupta  **Date & Place:** 25-04-2023, Noida | **Name:**  Garvita Nagpal  **Date & Place:** 25-04-2023, Noida | **Name:** Sushrut Khajuria  **Date & Place:** 25-04-2023, Noida |