**Project Diary**

**Title:** Assessment of article titled: “Survey of Maynooth Postgraduates”Team Members- Sean, Megan, Pratik and Suchismit

|  |  |
| --- | --- |
| **Week -1** | Team Meetings were held on 25th & 27th March |
| **Communication** | * Initial discussion about on the project understanding * WhatsApp Group was created for communication * Google doc was created for sharing the questionnaires |
| **Any analysis or other difficulties that arose and how they were overcome** | * Discussed about Survey methodologies and timelines * Identified the target group of students for the survey * Referred to similar studies done in past like “Euro student Survey” for questionnaire and analysis * Group decided on key areas to cover in the survey |
| **Progress made** | * Questionnaire pattern discussed * Discussed about the possible methodologies * Descriptive analysis using SAS * Analysing Basic modelling techniques for future implementation and also Visual Representation |
| **Member contributions to progress** | * Pratik did preliminary analysis about questionaries’ and suggested about Euro student Survey V * Megan created the WhatsApp Group for team communications * The entire group equally contributed about questionaries’ formation, defining the target group, scope of the analysis and some methods, which can be implemented. * Suchismit initiated to maintain the project diary. * Google doc was created by Megan * Dropbox was created by Sean |

|  |  |
| --- | --- |
| **Week- 2** | Team Meeting was held on 3rd April |
| **Communication** | * Thorough discussion on project objective and area of analysis * 3rd meeting scheduled on 10th April |
| **Any analysis or other difficulties that arose and how they were overcome** | * Survey Questionaries’ and target audience finalisation * Challenged during data collection i.e. convincing students to fill the survey * Missing Data in some case needed imputation * Pratik and Suchismit tried to get some information related to the Survey from Maynooth University over the email but unsuccessful |
| **Progress made** | * Survey Form Creation and Collection * Assessment methods and project objective decided * Task distributed for remaining activities |
| **Member contributions to progress** | * Equal contribution of questionaries’ formation by the team member. * Total no. of 54 survey papers were divided among the group members * Sean conducted the survey among the Higher Diploma students of Applied Computer Science * Megan conducted the survey among the Higher Diploma students of Data Science * Pratik & Suchismit conducted the survey among the Masters students of Data Science & Software Eng./Dev. * Suchismit Maintained Project Diary for the week |

|  |  |
| --- | --- |
| **Week- 3** | Team Meeting was held on 10th April |
| **Communication** | * Finalised statistical analysis and visualization techniques * Data Entry created In Excel * Revisiting project objective and timelines * Next meeting scheduled on 15th April * Regular communication over WhatsApp and Gmail for sharing updates on the project |
| **Any analysis or other difficulties that arose and how they were overcome** | * Challenges while data entry i.e. missing and incomplete data * Data cleaning and imputations in SAS, identify the errors. |
| **Progress made** | * Assessment methods and project objective decided. * Data entry completed. |
| **Member contributions to progress** | * Suchismit & Pratik completed data entry in Excel * Data cleaning and manipulation performed in SAS and collectively decided on the final dataset for the analysis. * Megan & Pratik visualized the data for initial descriptive analysis. * Pratik undertook Data Modelling and Implemented machine learning algorithms to find the most suitable technique * Suchismit Maintained Project Diary for the week * Sean initiated the Project report |

|  |  |
| --- | --- |
| **Week- 4** | Team Meetings were held on 15th & 23rd & 24th April |
| **Communication** | * Finalised statistical analysis and visualization techniques * Peer review of the completed tasks and incorporating inputs and feedback * Regular communication over WhatsApp and Gmail for sharing updates on the project |
| **Any analysis or other difficulties that arose and how they were overcome** | * Data cleaning and manipulation in SAS, identifying major factors influencing Workload satisfaction of students * Data Visualisation and algorithm selection |
| **Progress made** | * Graphs and charts created for understanding the satisfaction results * Assessment methods and project objective decided * Peer review of the completed tasks and incorporating inputs and feedback |
| **Member contributions to progress** | * Model Optimization done by Pratik, performed analysis to compare different models for best prediction using SAS. Radom Forest and Logistic regression were the best models. * Megan and Sean visualized the data for further insights * Sean and Suchismit did final Project report * Suchismit and Pratik maintained Project Diary for the week * Pratik and Megan did final presentation |