**Team I Work Breakdown Report**

The team has been collectively working together right from data requirements phase to completing the lifecycle of the project. This report outlines the efforts made by the group and draws attention to the challenges that the team face altogether. The team consists of 3 members from Master of Science in Data Analytics, School of Computing, National College of Ireland. Below are the details of three members:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the member** | **Student Id** | **Dataset** | **Role** |
| Aasim Inamdar | 23236108 | Drivers | Member |
| Sana Jalgaonkar | 22237941 | Incidents | Team Lead |
| Waleed Bin Umer | 23187956 | Non - Motorists | Member |

Project Management activities and distribution are tracked at -  
<https://trello.com/invite/b/RNWPGW83/ATTId0de96d75044461cd7bcd57597744d1c2FE3D115/montgomery-county-dataset-analysis>

Below are the individual responsibilities of each team member:

Aasim Inamdar -

* Implemented the ETL build and visualization for drivers’ dataset.
* Worked upon setting up the local installation and connection of relational database – MySQL in his and team member’s machine.
* Collaborate with other team members to understand the requirements and iterate the solutions.
* Cleanse and preprocess the data to remove any inconsistencies and duplicates for the driver’s dataset.
* Worked on the formatting of the final report and PowerPoint presentation.
* Provided the explanations to insights found in the analysis of driver’s dataset in the final report.
* Carefully resolved disputes within the team, encouraging positive vibes during discussions and meetings.

Sana Jalgaonkar –

* Maintained a project management plan in place keeping in mind the project lifecycle right from requirements gathering to delivery of the project.
* Responsible for communication between the team and professor on the project.
* Distributed team’s tasks to each member based on their strengths and weaknesses.
* Designed the data architecture of the entire ETL process.
* Worked upon collecting data via API endpoints for Incidents and driver’s datasets.
* Implemented the ETL build and visualizations for Incidents datasets.
* Worked upon the common content along with explanation to insights to Incidents dataset in the final report and PowerPoint presentation.
* Tried to implement automation of the ETL pipeline using Luigi.
* Refactorized the code snippets to optimize and make the static versions of code dynamic.
* Configured MongoDB atlas cluster with proper Database and network access for the team.

Waleed Bin Umer-

* Implemented the ETL build and visualization for non-motorist’s dataset.
* Collaborate with other team members to understand the requirements and iterate the solutions.
* Cleanse and preprocess the data to remove any inconsistencies and duplicates for the non-motorist’s dataset.
* Worked upon understanding to establish the connection with MongoDB.
* Provided the explanations to insights found in the analysis of non-motorist’s dataset in the final report.
* Urged team members to work together to promote creative thinking and harmony.

Challenges faced by each member-