**Final Project Contribution Grade**

Each group is allocated five points per person (10 points total for 2-person groups and 15 points total for 3-person groups) that can be distributed among your group members to reflect individual contributions to the project. The max total points any one person can receive is 10 points. **See example allocations below for 2-person and 3-person groups:**

* Equal distribution:

|  |  |
| --- | --- |
| Person | Points |
| 1 | 5 |
| 2 | 5 |
| 3 | 5 |

|  |  |
| --- | --- |
| Person | Points |
| 1 | 5 |
| 2 | 5 |

* Unequal distribution (half point increments are fine):

|  |  |
| --- | --- |
| Person | Points |
| 1 | 8 |
| 2 | 3.5 |
| 3 | 3.5 |

|  |  |
| --- | --- |
| Person | Points |
| 1 | 7 |
| 2 | 3 |

Instructions:

1. Meet with your group members and allow each person to share their contributions to the final project.
2. **Respectfully** discuss and consider the contributions made by you and your group members.
3. **Every group member should mention their contribution in detailed manner.**
4. Decide on an appropriate point allocation for the contribution component of the project grade.
5. Once a **unanimous decision** has been reached, complete the form on the next page.
6. Have someone from the group turn in the signed paper to me in the final class.
7. If you cannot reach a unanimous decision, please e-mail me for further instructions.

Group #: 15

Full name: Akhil Reddy Chimmula

Points awarded: 5

Signature: Akhil Reddy Chimmula

Full name: Bhavesh Kurella

Points awarded: 5

Signature: Bhavesh Kurella

Full name: Shashank Yelagandula

Points awarded: 5

Signature: Shashank Yelagandula

Make sure that the total points allocated sum to 10 for 2-person groups and 15 for 3-person groups.

**Each group member should fill out the following pages with their own contribution to the project in detail.**

Full Name: Akhil Reddy Chimmula

Contribution: Took charge of addressing missing values, getting rid of duplicates, and changing variables as necessary when it comes to cleaning and pre-processing the data.

Examined the data using various statistical and graphical methods, such as correlation matrices, boxplots, and histograms, to draw conclusions and spot trends. Using the EDA results and domain expertise, developed new features or modify existing ones.

Full Name: Bhavesh Kurella

Contribution: To improve the performance of the chosen models, the hyperparameters were fine-tuned using methods like grid search, random search, or Bayesian optimization. This was done after conducting research and selecting the best machine learning models based on the project's requirements.

To further enhance the performance of the model, bagging, boosting, and stacking ensemble approaches were researched and applied.

Full Name: Shashank Yelagandula

Contribution: Use cloud services like AWS or GCP to deploy the trained models, and Flask or Django to build a web-based user interface for interacting with the models. additionally produced visuals to show stakeholders the project's findings, such as interactive plots or dashboards.

To understand how the models make decisions and strengthen confidence in their predictions, strategies to interpret and explain the models' predictions, such as feature significance, partial dependency plots, or SHAP values, were researched and put into practice.

To make sure the project is well-documented and can be readily copied or maintained, documentation was developed, such as project reports and technical documentation. conveyed the results of the project.