Group Project Plan

1. **Project title:** Crook of stats
2. **Group Members**

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| --- | --- | --- |
| No. | Name | Course |
| 1 | Dhruv Jain | 627 |
| 2 | Mekdim Ashebo | 627 |
| 3 | Dhanush | 627 |
| 4 | Sunday | 627 |

1. **Topic –** Airbnb dataset analysis and prediction
2. **Questions of Interest:**

Classification Problems

* Does allowing pets make it cheap or expensive? Are renters interested if pets are allowed?
* Does a response time have any effect on the person who is booking?
* Does the number of views based on current data in a specific zip code affect the rental probability?
* Feedback is important for renters personally.
* Does the security deposit, cleaning fees, or fees for extra people change the person's interest in renting the place?

Regression Problems

* Occupancy Rate Prediction
* Predicting price
* Rental Duration Prediction
* Income Prediction for Hosts

1. **Approaches**

* Data collecting
* Data cleaning
* Modeling:

Regression: Linear regression, Lasso, ridge, Cross-validation.

Classification: LDA, K-fold, LR,

* Evaluation
* Conclusion

1. **Group Responsibilities**

Project plan, GitHub, Modeling for regression, report - DJ

Data collecting, Modeling for regression, conclusion – MK.

Data cleaning, Modeling for classification, report - VK

Modeling, Evaluation methods, conclusion – SO

1. **Deliverable:** Option B – Report Dataset(http://insideairbnb.com/get-the-data/)