Presentation Topics

1. Introduction (less than 3 minutes) (Negar)
   1. What is the problem
   2. What are current solutions to the problem (hand calculations and ML models)
2. Describe our data set (Ishpreet)
   1. Source, format, size, key attributes
   2. What columns and features will be used for training the model
   3. Specify the column or metric that will serve as the ‘ground truth’ for evaluating model performance
   4. Why we had to split the dataset cause of circular and square
3. Model comparison (Max)
   1. The different models that we made and justifications
   2. How we ran each model (hyperparameters)
   3. Challenges and limitations of each model
   4. Libraries that we used
4. Results of the models (Anthony)
   1. Techniques that we use to validate model performance + rationale
   2. Final performance of the model based on our evaluation metrics
   3. Error metrics
   4. figures

1. Discussion: (Jasleen)
   1. Model shortcomings and reasons for these shortcomings
      1. Overfit or underfit
         1. Hard to know whether its an actual overfit
   2. What we would have done if we had more time
      1. Potential improvements
2. Conclusion (Dave and Leo)
   1. Recap key results
   2. Limitations of our approach
   3. How did our model relate to the problem we wanted to solve
   4. Impact of the research and if we actually addressed the gaps we identified earlier
   5. Suggestions for future research/ steps that could improve model performance or expand applications
3. Questions