

Contribution Document

May 2023

1 Roles and contributions of team members

Everyone contributes equally to the final project report, codes, and presentation and helps each other in weekly discussions.

- Project manager: Heyuan Huang
 - Coordinate team meetings and delegate tasks
 - Monitor progress and help debug
 - Communicate with the professor and TA
- Researchers and Presenters:
 - Yingxue Pan: Data Visualization and Easy Data Augmentation(EDA)
 - Gaoqianxue Liu: Baseline Bert model and Clinical Bert model
 - Ji Qi, Heyuan Huang: Multi-class Machine Learning methods: Traditional Feature Extraction, Dimensionality Reduction; Binary classification Machine Learning models: Chi-square Test and Feature selection, Hyperparameter tuning; GPT-4 Data Augmentation
 - All: Combine augmented data and conduct model testing and comparison

2 Timeline

- March 20: Data preprocessed and cleaned.
- March 31: Plan in this proposal finished.
- April 14: Model performance assessed and method framework improved.
- April 25: Final manuscript and slides finished.
- May 2: Final project presented in class.