ST. CLAIR COLLEGE
ZEKELMAN SCHOOL OF INFORMATION TECHNOLOGY

Agenda & Meeting Minutes

Group No: 3 | Meeting Number: 2| Date: 4-March-2024 | Time: 9 AM

DAB 304 – Healthcare Analytics: Weekly Project Meeting Minutes

	Name	ID
Chair:	Dr. Sutharsan Sivagnanam	
Present:	Srilakshmi Gummadidala, Yen Nga Le, Tehsin Shaikh	0803509, 0824817, 0831234
Next meeting date:	Date/Time 11 – Mar – 2024 9:00 AM	

1. **Agenda**

1.1 : **Project activities/work after W7.**
1.2 : **Individual group member action items**

2. **Specific Activities from prior week:**

2.1 List brief description of activities carried out by group members.

- As a team, we collectively delved into the exploration of feature importance, aiming to unveil the critical influencers on our target variable. This process not only assisted in potential feature selection but also provided insights for deeper model interpretation.
- We collaborated on the development of supplementary models, including Random Forest classifier, Decision Tree, XGBoost, and Neural Networks. By deploying a variety of algorithms, we meticulously evaluated their performance to ascertain the most effective model for our dataset.

3. **Specific Output from prior week:**

3.1 Include summary of any written work or any code developed.

- We conducted dataset cleaning procedures, addressing missing values, performing statistical analysis, handling data types, and examining categorical distributions for the 'Class' variable. Additionally, we investigated the correlation among variables as part of our EDA analysis.
- Subsequently, we proceeded with predicting the model using a logistic regression approach and analyzed the resulting classification report to evaluate model performance.
- Explored feature importance to understand which features have the most significant impact on the target variable. This could help in feature selection or further interpretation of the model.

- Built additional models such as Random Forest classifier, Decision Tree, XGBoost, and Neural Networks. This step likely involved using different algorithms to compare their performance and select the best-performing model for your dataset.
- Dataset link: https://data.world/uci/breast-cancer-wisconsin-original/workspace/project-summary?agentid=uci&datasetid=breast-cancer-wisconsin-original

3.2 Attach actual output when submitting minutes.

- Python code Notebook and HTML file have been attached.

4. **On Target:**

4.1 Indicate the status of your project.

- 🟢 **green**: everything on track for completion by due date

5. **Challenges/Disagreements:**

5.1 List any particular challenges identified/discussed and possible solutions.

- As of now, no specific challenges or issues have been identified or discussed. We are focused on gaining a better understanding of the dataset through model exploration.

5.2 List any notable disagreements and subsequent discussion and resolution.

- There have been no notable disagreements among team members thus far. Discussions have been collaborative and focused on understanding the dataset and refining our analysis techniques. Any differences in opinions or approaches have been resolved through open communication and consensus-building within the team.

6. **Planned Activities for coming week:**

6.1 List brief description of activities by group member.

- Each group member will continue to delve into specific aspects of the dataset, including feature engineering, model selection, and performance evaluation. Throughout this process, open discussions will be held to address any important points or insights that arise, ensuring comprehensive analysis and effective collaboration within the team.

6.2 Make sure tasks are assigned to address yellow and red flag items.

- As of now, there are no yellow or red flag items identified. The team will promptly address any such issues that may arise during the project's progression.

7. **Action Items/Deadlines**

7.1 March 11 to April 22 (Week 9 – 15):

- During this period, we will focus on advancing the project goals and action items, including Feature Engineering, Advanced Model Selection, Model Tuning and Optimization, Performance Evaluation, Feature Importance and Interpretability, Model Validation with External Data, Project Documentation and Reporting, Preparation for the Project Presentation.