

## Risk Register

ID	Risk Description	Likelihood	Impact	Owner	Mitigation	Status
1	Transformer model underperforms compared to baseline models (CNN)	Medium	High	Student	Conduct thorough comparative analysis during the research phase. Fine-tune hyperparameters and optimize the transformer architecture.	Open
2	Imbalanced dataset for training	High	High	Student	Use publicly available datasets like the Cleveland Heart Disease Dataset and Kaggle.	Open
3	Hardware limitations (High GPU consumption)	Medium	High	Student	Optimize code for efficiency.	Open
4	User interface (UI) development challenges	Low	Medium	Student	Test the interface early and gather feedback.	Open
5	Ethical concerns with dataset usage	Low	Low	Student	Avoid using sensitive or private data. Ensure compliance with data usage policies (UCI/Kaggle terms).	Open
6	Difficulty in interpreting model results	Medium	Medium	Student	Use visualization tools. Seek guidance from the supervisor if needed.	Open
7	Lack of domain knowledge in heart disease	Medium	Medium	Student	Conduct thorough literature review and seek supervisor assistance.	Open