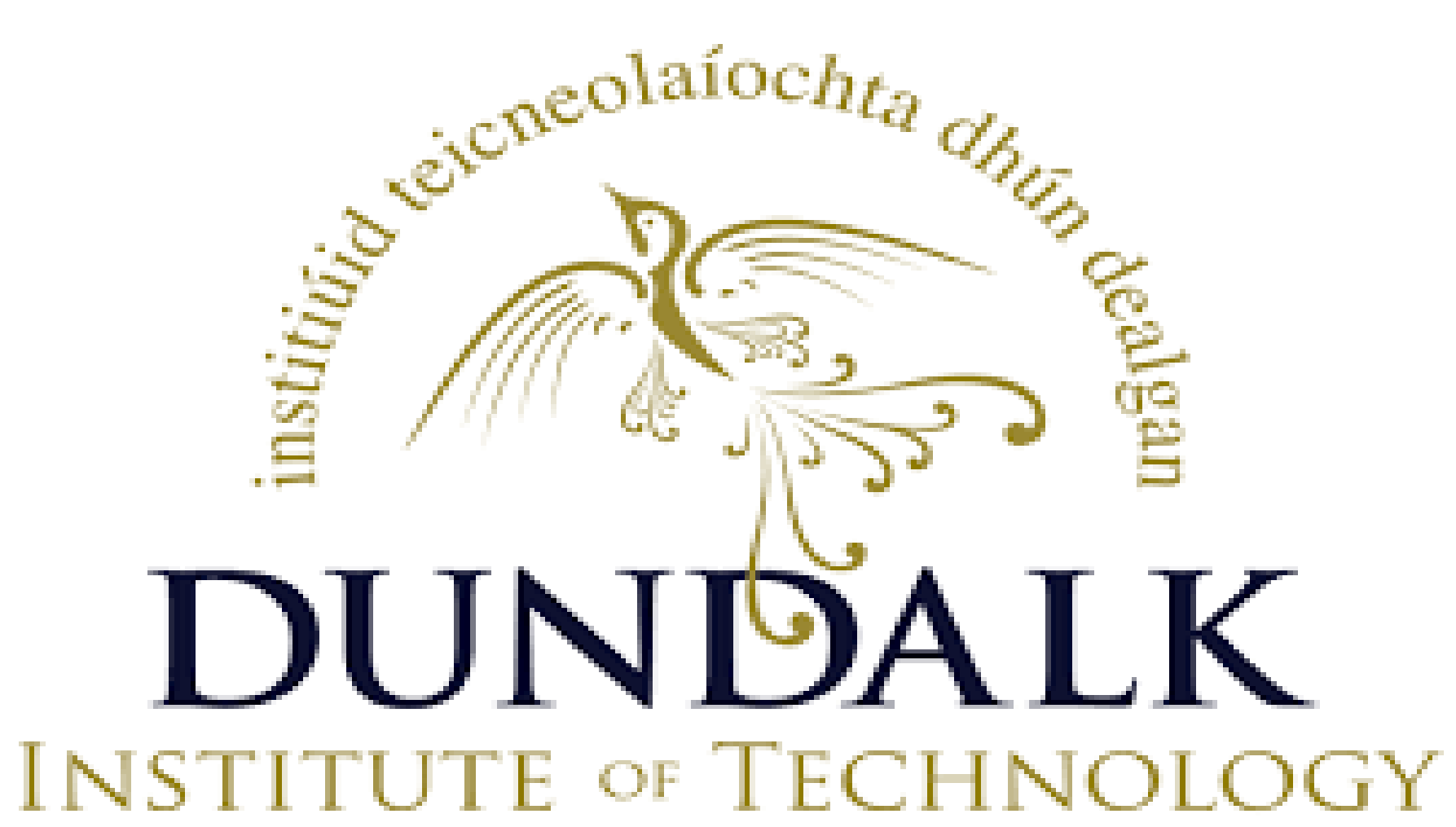


Early Cardio Vascular Disease Detection using Machine Learning and Explainable AI

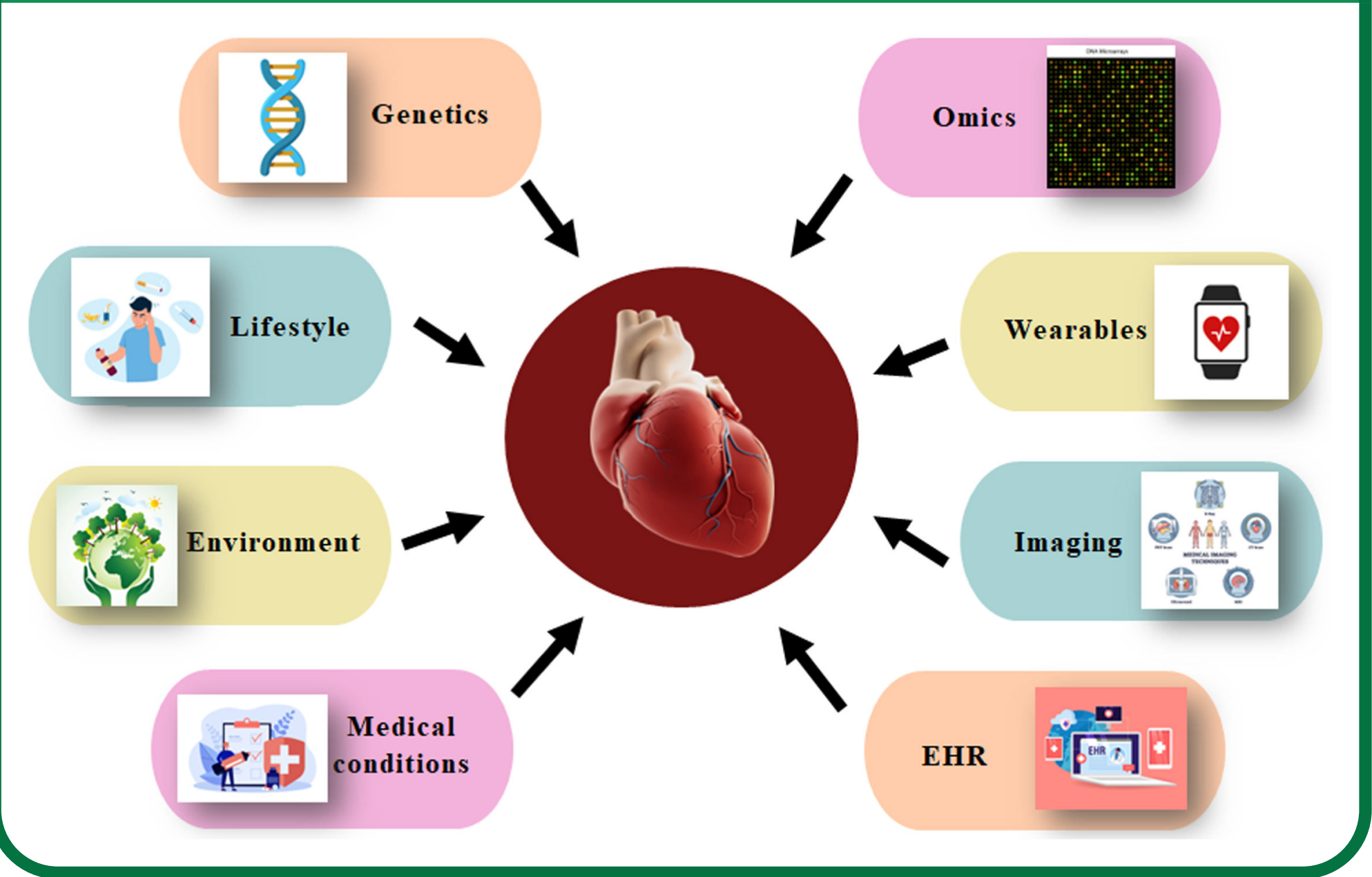
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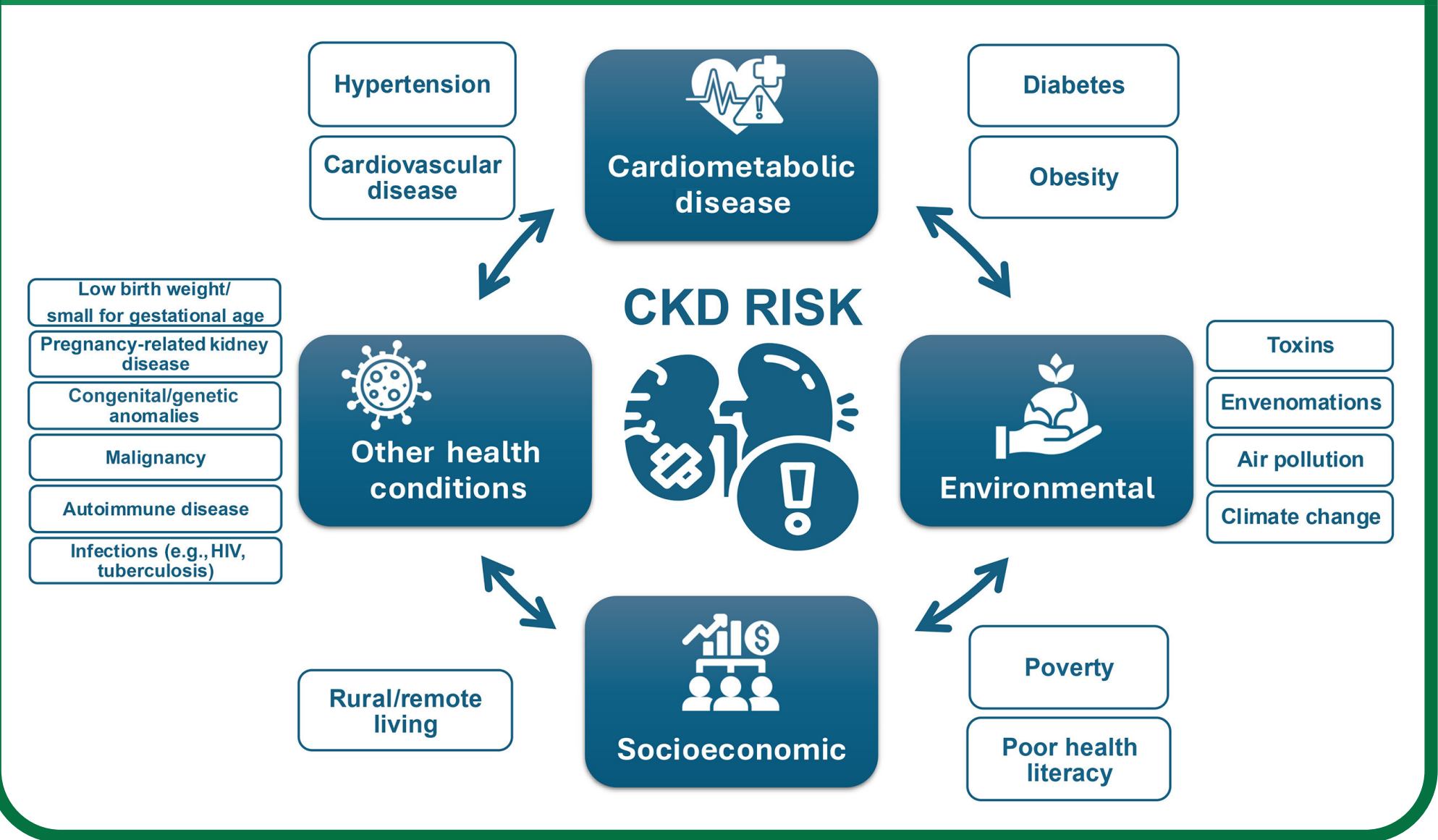


1. Introduction

2. Problem Statement



3. Machine Learning Techniques



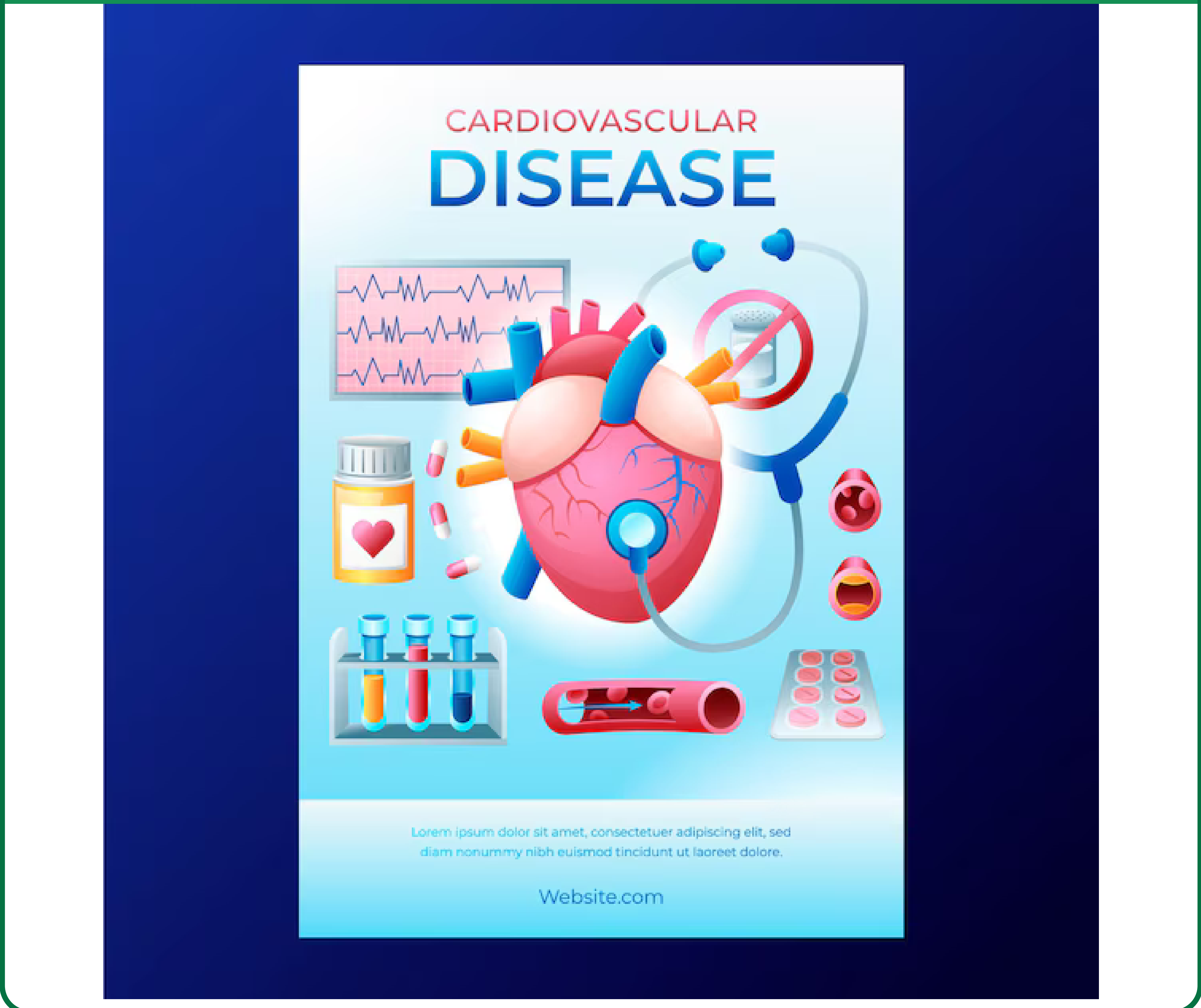
7. References

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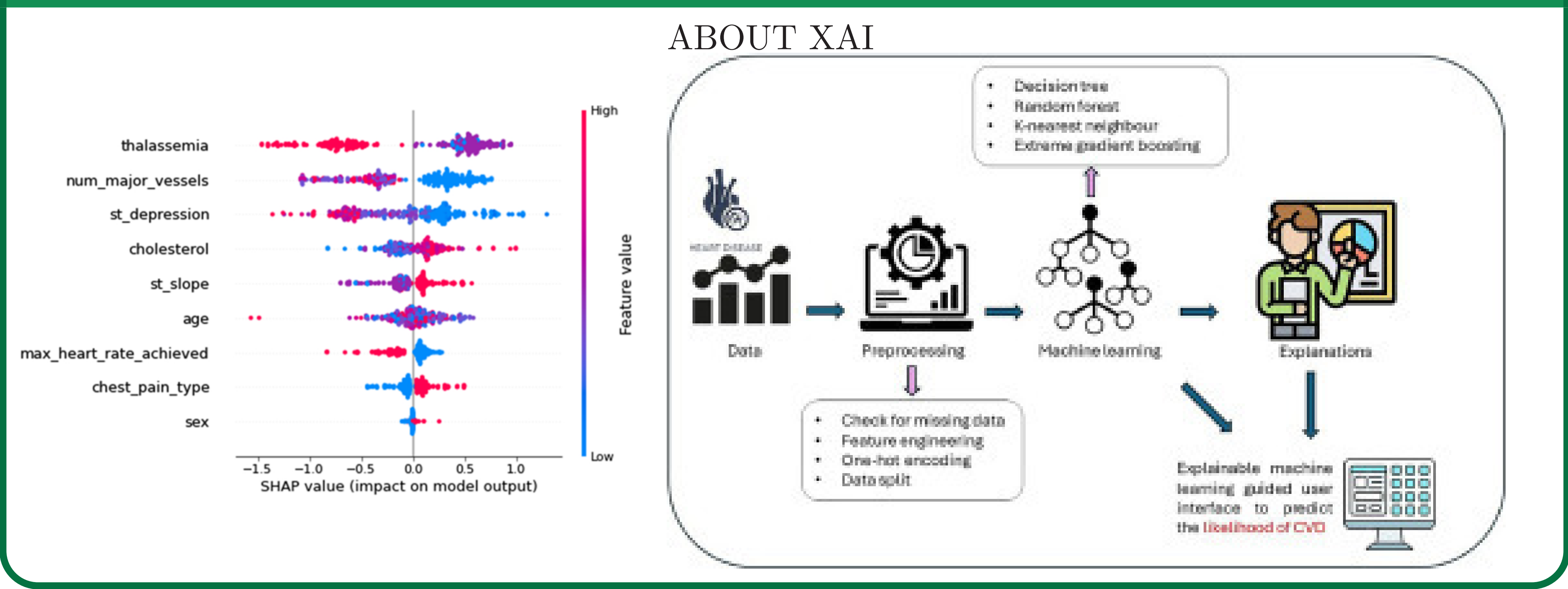
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4. Applications



5. Explainable AI (XAI)



6. Conclusions

1. DeCAF gives better results for 23 out of 35 receptors.
2. For targets with easily separable active and inactive datasets, SEA and DeCAF give similar results.
3. In cases in which SEA fails to identify active molecules, our method performs substantially better.