



## PROBLEM

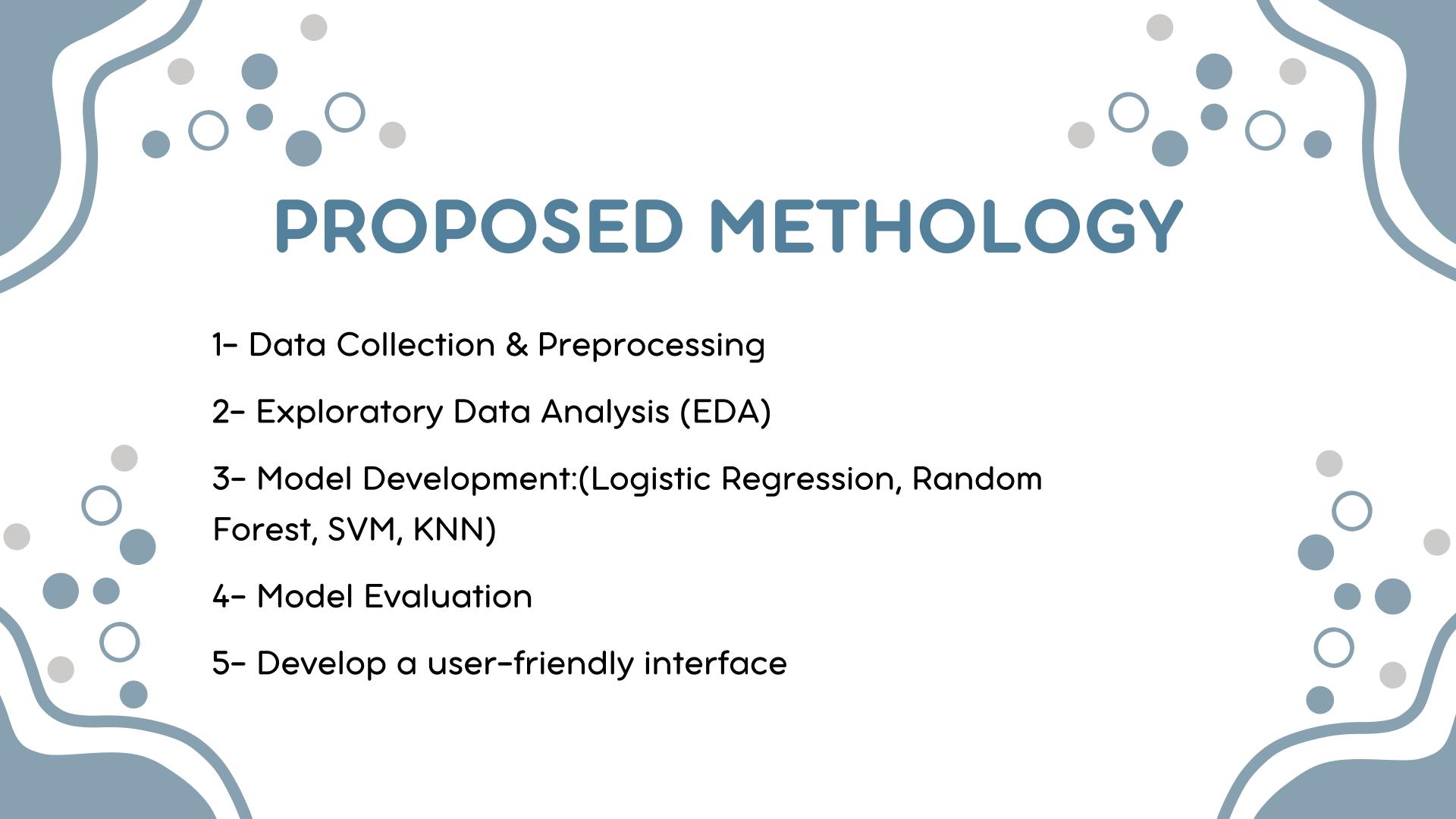
Traditional lung cancer diagnosticsare invasive, costly, and often detectcancer at advanced stages. Thisproject will develop a machinelearning model to predict lungcancer likelihood based on patientdata, supporting early, non-invasivedetection.





- Machine Learning for Lung Cancer

  <u>Diagnosis, Treatment, and Prognosis</u>
- Deep learning for lungs cancer detection: a review
- Predicting lung cancer survival based on clinical data using machine learning: A review





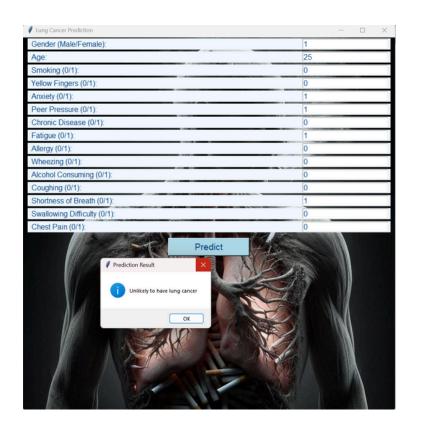
## RESULTS

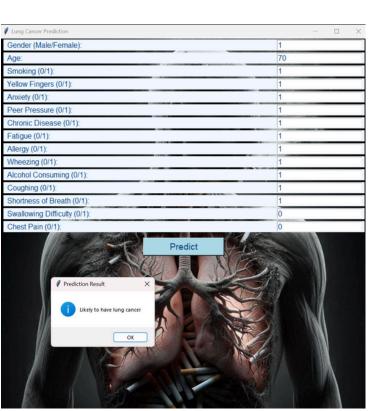
- Scalable Solution
- Improved Early Detection
- Reduction in Diagnostic Costs
- Support for Personalized Treatment Plans
- User-Friendly Interface

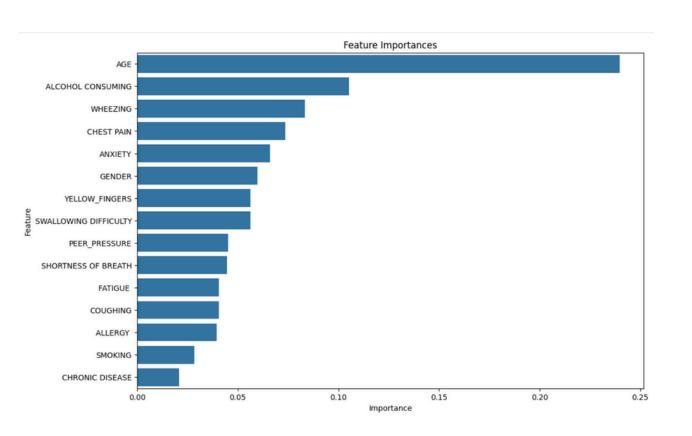




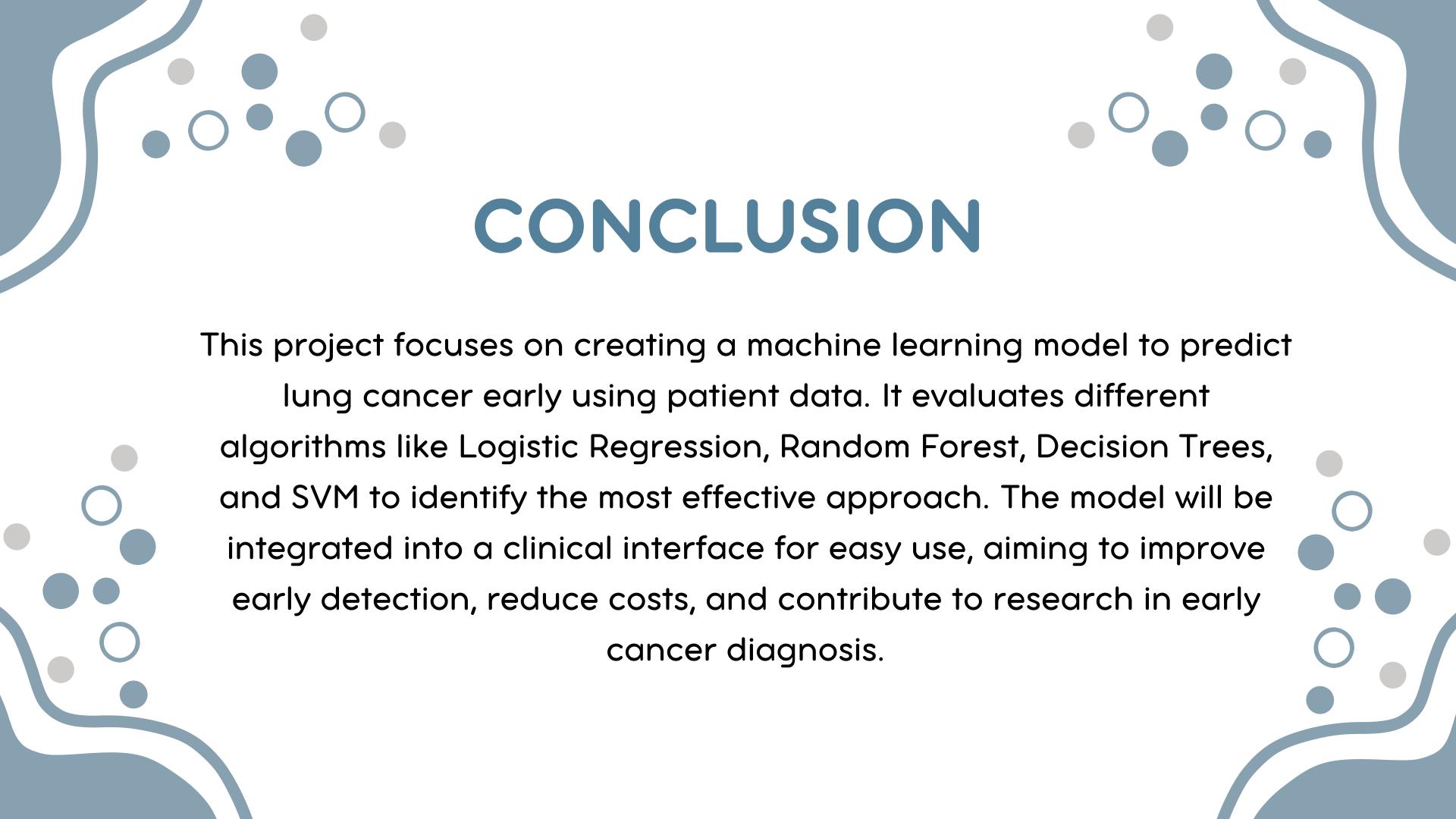


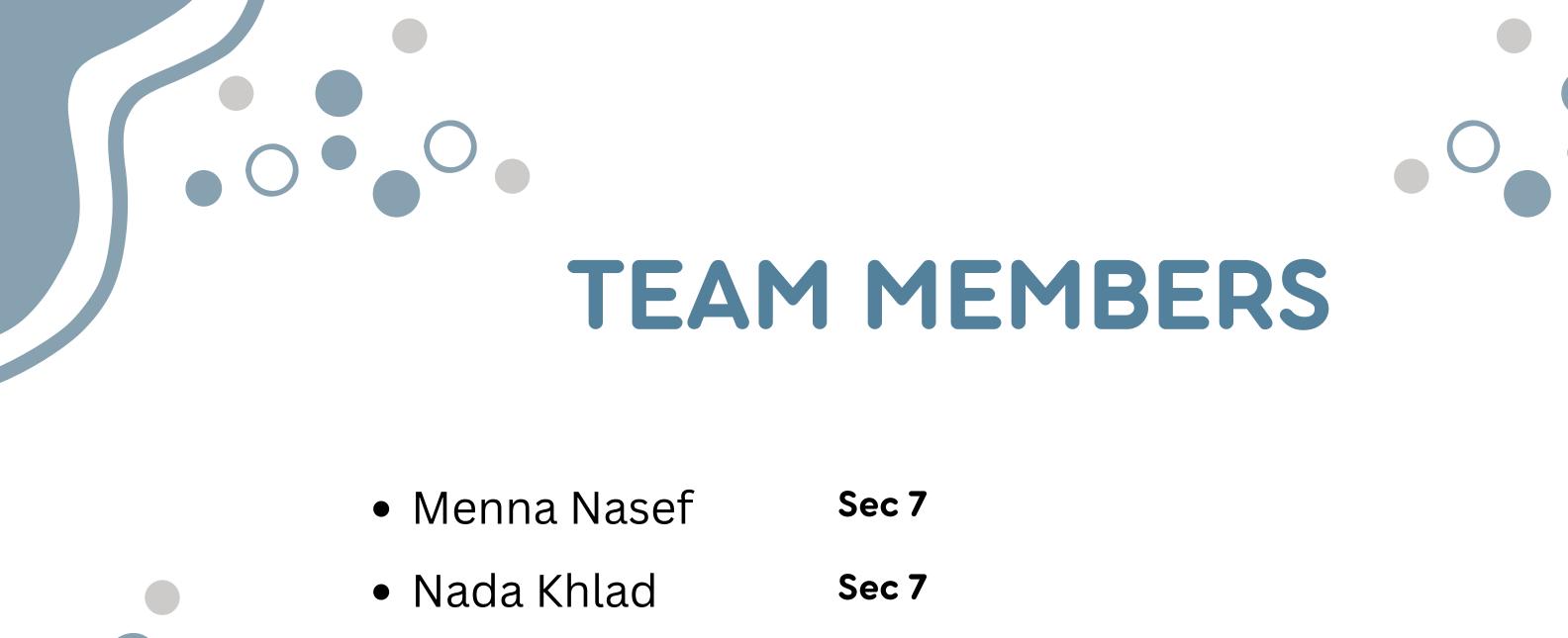






SVM after hyper parameter tunning called optuna | 95 %





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