

# **Lung cancer prediction**

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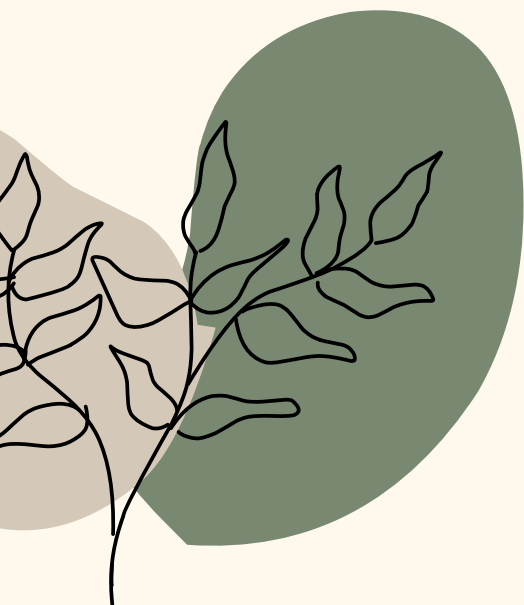
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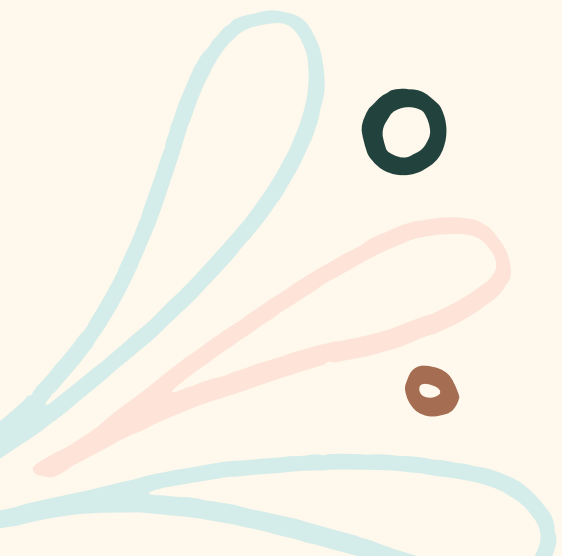
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# introduction

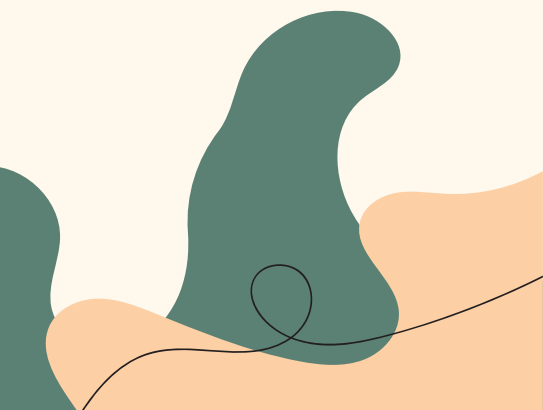
**Lung cancer's high mortality rate is largely due to late detection, as symptoms often appear only in advanced stages.**

**Early, accurate prediction could significantly improve survival rates by allowing timely interventions.**



# Problem Statement

**Traditional lung cancer diagnostics are invasive, costly, and often detect cancer at advanced stages. This project will develop a machine learning model to predict lung cancer likelihood based on patient data, supporting early, non-invasive detection.**



# Goals

- **Develop a machine learning model for lung cancer prediction based on patient data, focusing on non-invasive factors to facilitate early risk assessment.**
- **Evaluate different ML algorithms (logistic regression, decision trees, random forest, SVM) to identify the most accurate for lung cancer prediction.**
- **Integrate the model within a clinical interface or API, enabling easy access and practical application in healthcare settings.**
- **Contribute to research by sharing insights and findings, enhancing the broader understanding of machine learning's potential in early cancer detection.**

# related work

🔗 Machine Learning for Lung Cancer Diagnosis, Treatment, and Prognosis

🔗 Deep learning for lungs cancer detection: a review

🔗 Predicting lung cancer survival based on clinical data using machine learning: A review

