



# OncoDetectAI

## Early Detection, Better Outcomes!

### INTRODUCTION

OncoDetectAI is a multimodal GenAI platform designed to accelerate SCLC research and clinical decision support


It unifies scientific literature, genomic data, and AI-powered reasoning to deliver rapid, evidence-based insights for clinicians and researchers


### PROBLEM STATEMENT


SCLC care depends on fragmented research and slow manual literature review

Clinicians lack an integrated AI platform unifying genomics, imaging, and evidence

### FEATURES


 **Multimodal Research Assistant:** RAG chatbot using text + image embeddings, Arxiv search, and web search

 **Risk Prediction:** Predicts SCLC risk from clinical + genomic inputs; high-risk users get nearby cancer center recommendations

 **Secure User Management:** Snowflake-based sign-up and login within Streamlit in Snowflake

 **AI Clinical Analysis:** Cohort stats, similar patient insights, prognosis, and evidence-based treatment suggestions

 **Admin Analytics:** Kafka → Confluent → Snowflake pipeline with automatic Cortex Text-to-SQL insights

 **Subtype Classification:** Identifies SCLC-N/P/A/Y subtypes with therapeutic implications; downloadable reports



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