

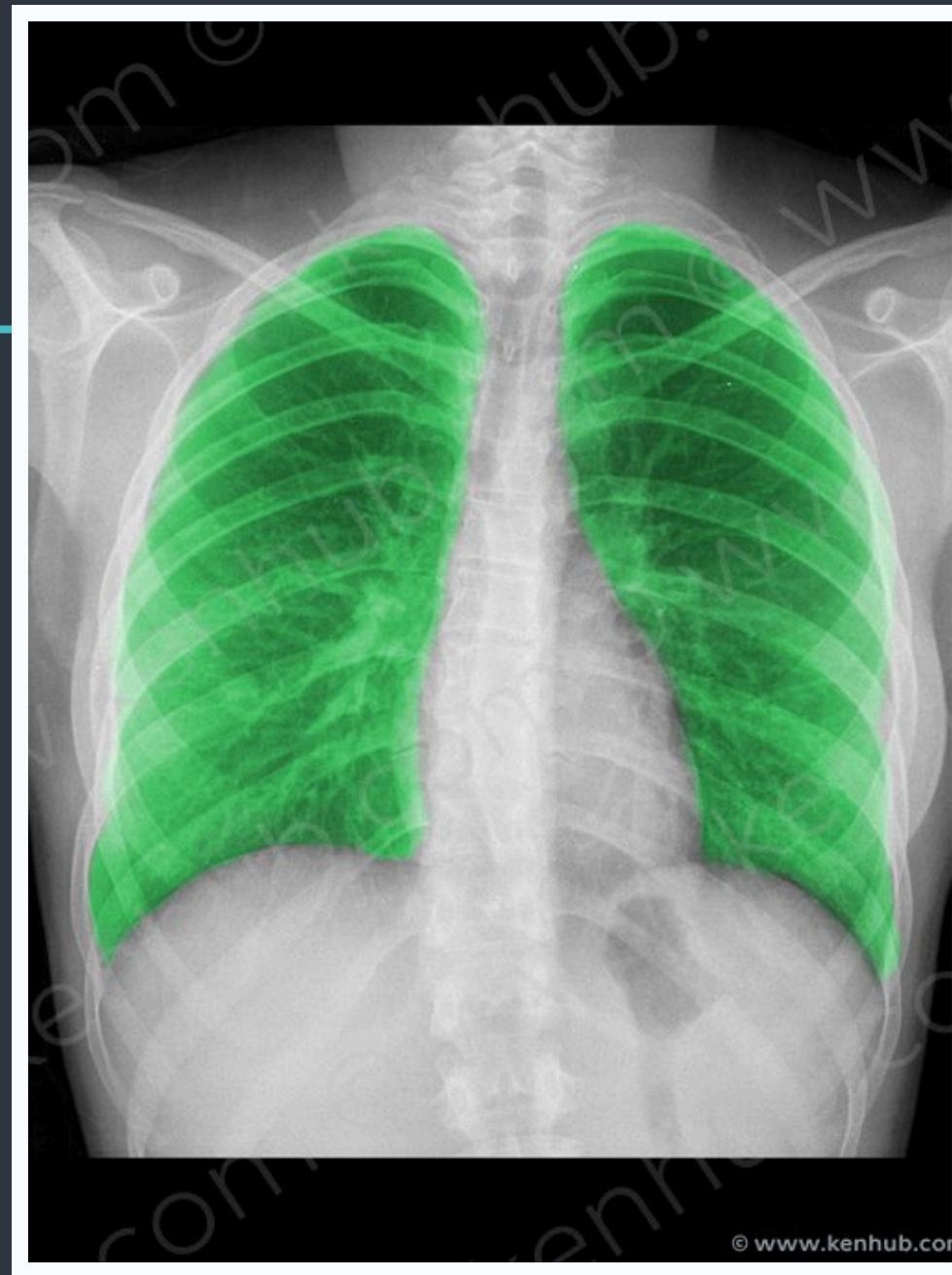
GENERATIVE AI

# AUTOMATED MEDICAL IMAGE ANNOTATION

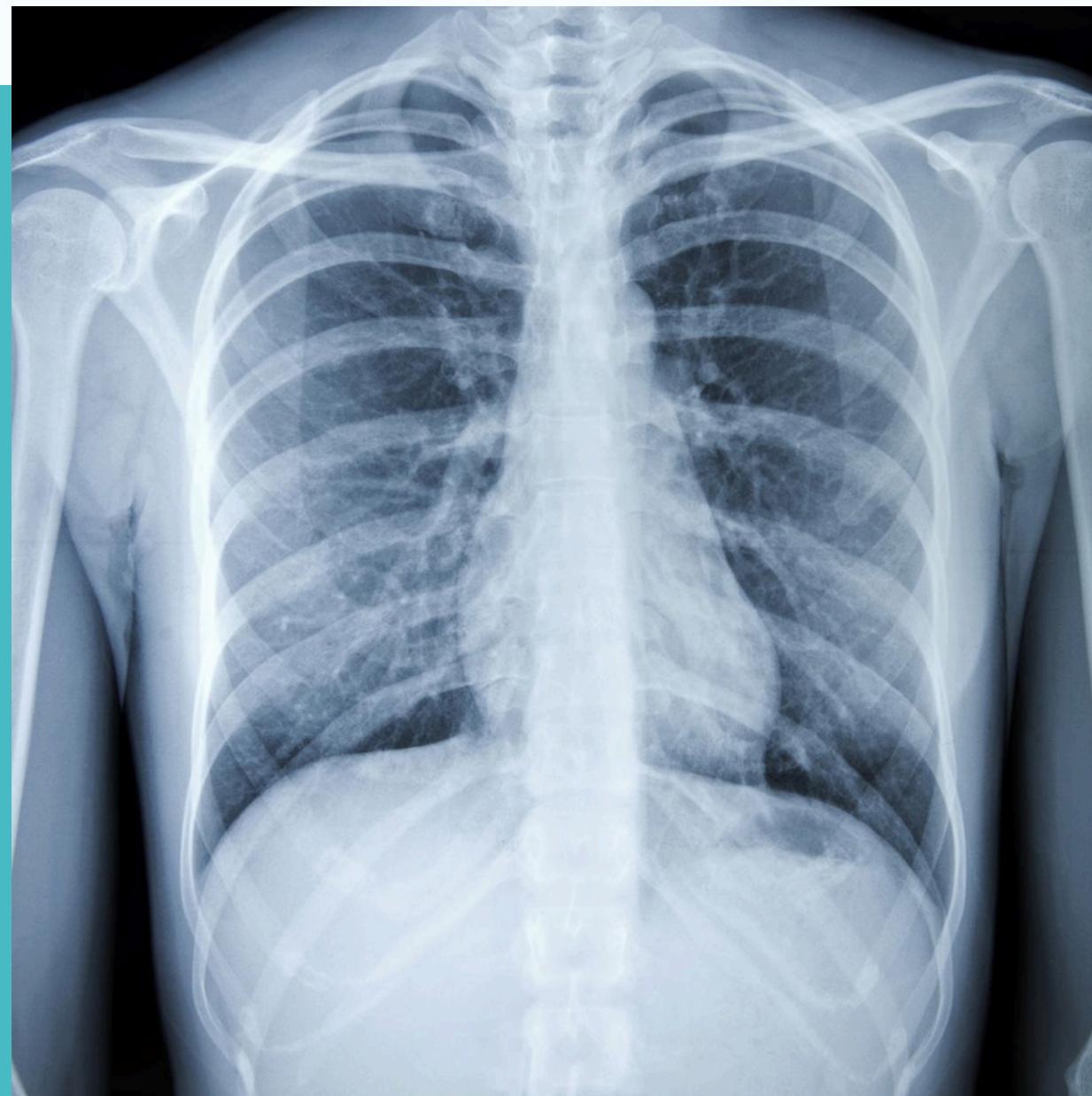
Team: TECH GLITCH

# DEVELOP AN AI TOOL CAPABLE OF -

- Automatically identifying and annotating critical areas in chest X-rays
- Differentiating between healthy and abnormal tissues
- Identifying early signs of diseases like pneumonia, tuberculosis, or tumors
- Analyzing and cross-referencing the annotated images with the corresponding reports
- Reducing the workload of radiologists and minimizing diagnostic errors



# KEY FEATURES



ANOMALY  
DETECTION



EARLY DISEASE  
IDENTIFICATION



AUTOMATIC  
REPORT ANALYSIS



INTERACTIVE  
INTERFACE

# TECHNOLOGY STACK



Python  
Programming  
Language



VS Code, Jupyter  
Tools/IDE

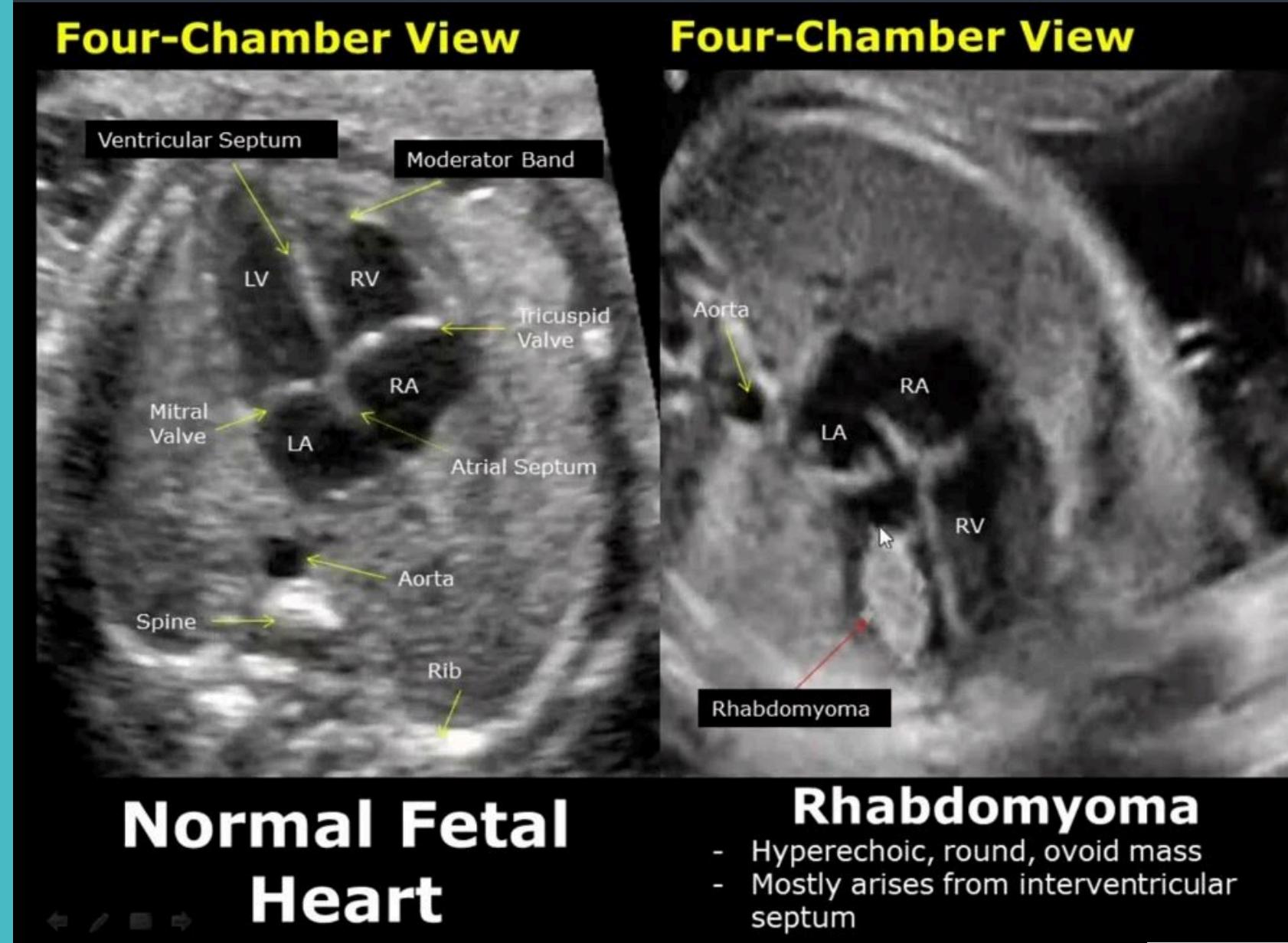


- **DL:** TensorFlow, Keras, PyTorch
  - **ML:** Scikit-learn
- Frameworks



OpenCV, NumPy,  
Matplotlib  
Libraries

# METHODOLOGY



- Data Preprocessing
- Model Training
- Annotation Generation
- Integration with Report Analysis
- Evaluation and Testing

# CONCLUSION

This project creates a tool that automatically highlights key areas in medical images, helping radiologists diagnose more accurately and quickly. With continuous learning, it can improve efficiency and reduce errors, transforming medical image analysis.

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