



RadiXGPT



ABSTRACT

RadiXGPT enables *real-time consultations*, previously limited to radiologists, allowing users to *discuss report results*, *decipher technical details*, and *obtain expert guidance*. Our solution *automates report generation* using *state-of-the-art large language models (LLMs)* and *vision-language models (VLMs)* providing prompt and accurate diagnoses for *local community spine imaging data*. The innovative pipeline seamlessly integrates with LLMs and VLMs, delivering precise results in real-time. *Robust cloud security* measures protect sensitive medical data, and the *scalable AWS infrastructure* is cost-effective. RadiXGPT's groundbreaking *real-time consultation* feature enables users to interact with the model, *receive expert advice*, and *discuss report findings*, revolutionizing radiology reporting and enhancing patient outcomes.

OBJECTIVES

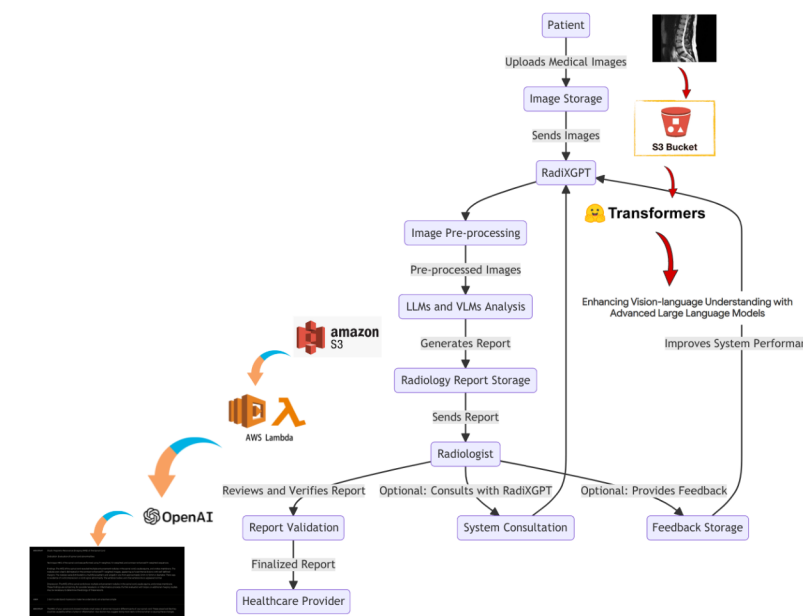
- **Robust pipeline:** LLMs and VLMs for radiological data processing.
- **Accurate report generation:** Train LLMs and VLMs.
- **User-friendly design:** front-end for radiologists, robust backend.
- **Secure storage:** cloud security measures.
- **Cost-effective deployment:** AWS services for scaling and hosting.
- **Innovation:** AI and cloud technologies in medical imaging and radiology.
- **Efficient report generation:** reduce time and cost for providers and patients.
- **Real-time feedback:** ongoing model enhancement and scenario adaptation.

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FIGURE



SUPERVISORS

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SDGs

SDG - 3:
GOOD HEALTH
AND WELL BEING



TOOLS USED

