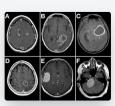
BrainMRI AI

Semantic Search for Tumor Diagnosis



Brain MRI AI



Recorded

Thanks for talking.

Seems like a brain cancer on the right side and the patience authority and 40 years old how can I find similar documents for this cases in the past



Seems like a brain cancer on the right side and the patience authority and 40 years old how can I find similar documents for this cases in the past

* Analyze using previous case studies

Summary:

Based on the search results, it seems that there are several cases of brain tumors on the right side. Although specific information about the "patience authority" is not available, there are relevant cases of brain tumor patients around 40 years old. To find similar documents for these cases in the past, you can refer to the provided figures [3], [7], [2], [4], and the observation of age groups [5]. These sources provide insights into different types of brain tumors, including low-grade astrocytoms and glioblastoms multiforms, in patients within the age range of 41-60 years. It is important to consult with medical professionals and access more comprehensive resources for accurate and detailed information.

Sources:

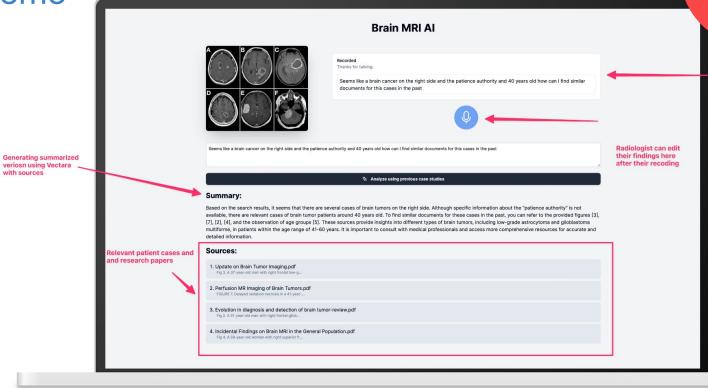
- Update on Brain Tumor Imaging.pdf
 Fig 3. A 37-year-old man with right frontal low-g...
- Perfusion MR Imaging of Brain Tumors.pdf FIGURE 7. Delayed radiation necrosis in a 41-year-...
- Evolution in diagnosis and detection of brain tumor-review.pdf
 Fig 2. A 51-year-old man with right frontal glob...
- Incidental Findings on Brain MRI in the General Population.pdf Fig 4. A 59-year-old woman with right superior fr...



Problem

- 20%+ of radiology reports contain some sort of error
- Only 36% of their time used on actual image interpretation

Demo



Radiologist can record precised finding wirg proper format just by talking

Architecture





- NextJS, TailwindCSS, Shadcn → Frontend
- Vectara API → semantic search
- webkitSpeechRecognition API → record transcript

Use Cases



- Streamline the diagnostic process
- Enable radiologists to access pertinent information quickly
- Improve and speed up healthcare outcomes

Future Steps

- Generation of a formal report to doctors
- Develop fine-tuned LLM for radiology use cases

