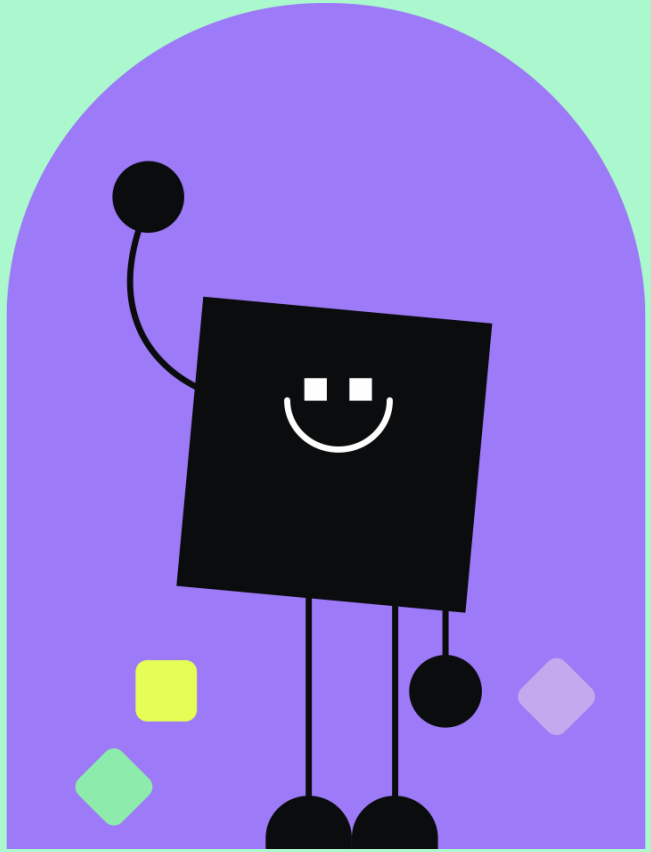
Bridging the Gap

How AI Connects Dental Clinics with Students

AI:Dental



Brief Intro

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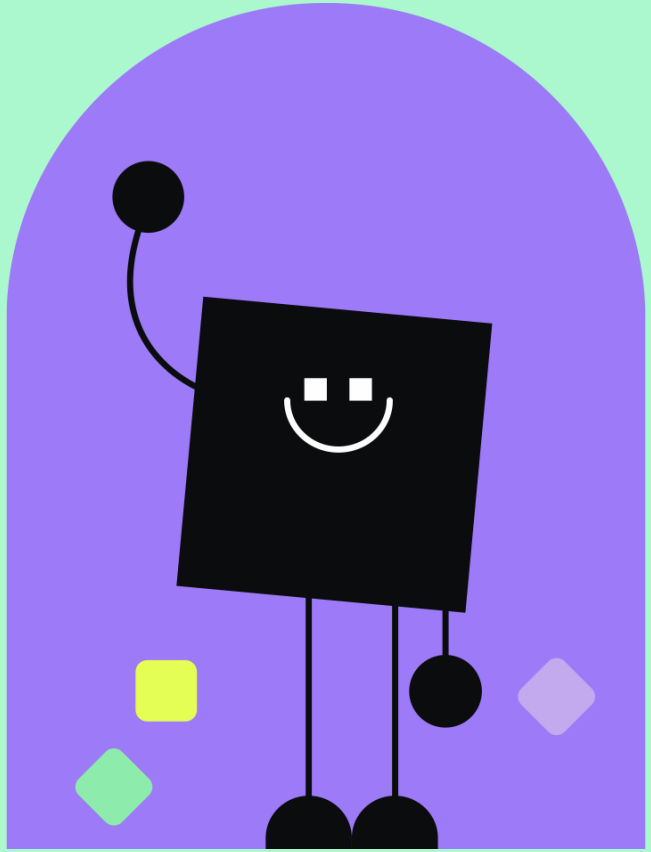
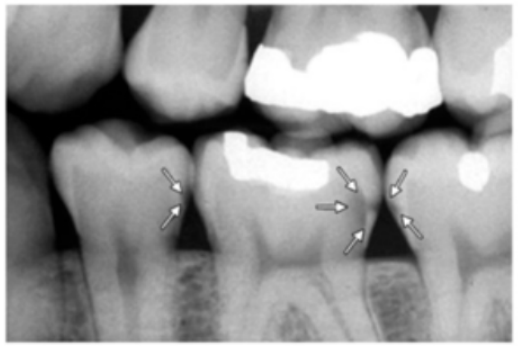


The Gap

Dental students' accuracy ranges from **48% – 65%** in radiograph interpretation

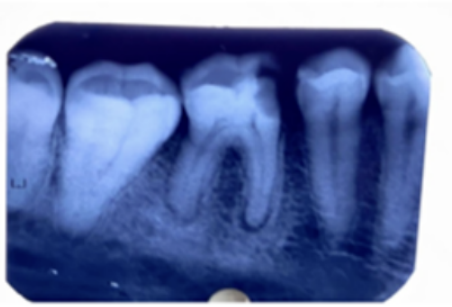
Radiographs interpretation[1]

6.arrowheads here indicate?



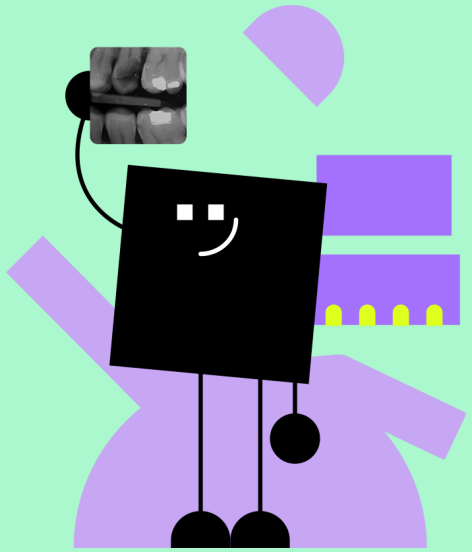
- cervical burnout
- incipient caries
- incorrect projection
- artifact

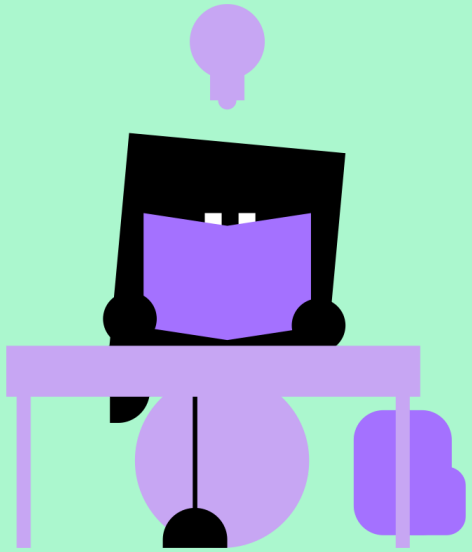
5.which disease condition of periapex does this radiograph reveal?



- apical periodontitis
- apical cyst
- dentoalveolar abscess
- periapical granuloma

1. 2022 Evaluation of radiographic interpretation skills of undergraduate dental students studying in a dental college of Punjab, India – A comparative study





Why the Gap?[2]

- Limited or no access to relevant radiographs
- Challenges in obtaining real-time supervision feedback

2. 2022 Dental Students' Knowledge, Confidence, Ability, and Self-Reported Difficulties in Periodontal Education: A Mixed Method Pilot Study

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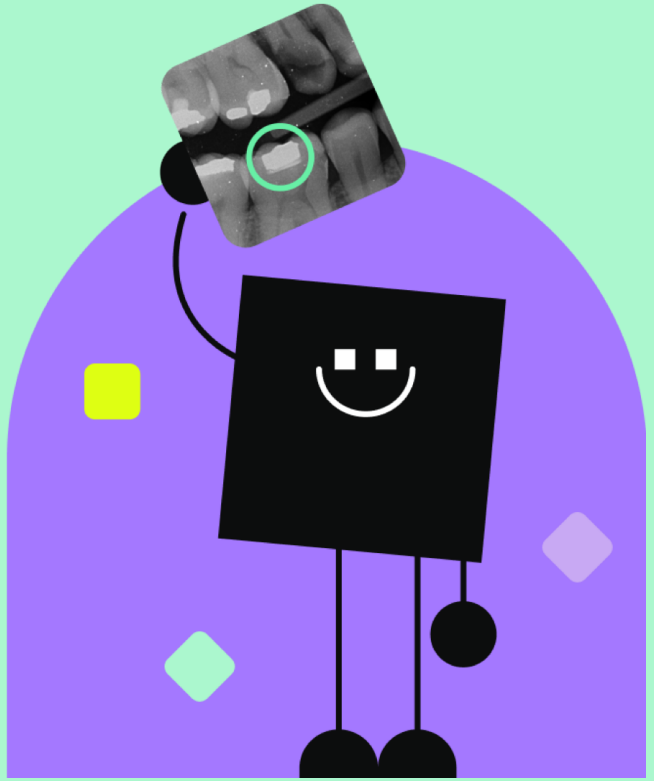


The Bridge – AI:Dental for Education

A) Convert X-rays to educational content

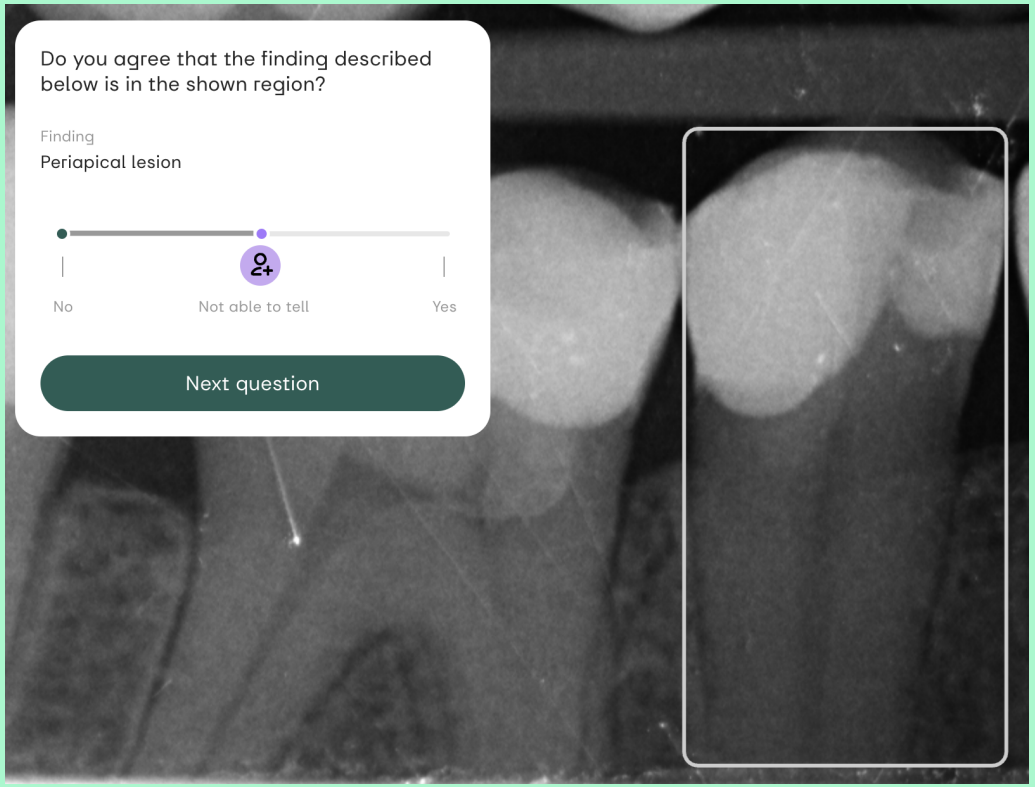
B) Real-time supervised learning

C) Search for relevant radiographs

A) Convert X-rays to educational content

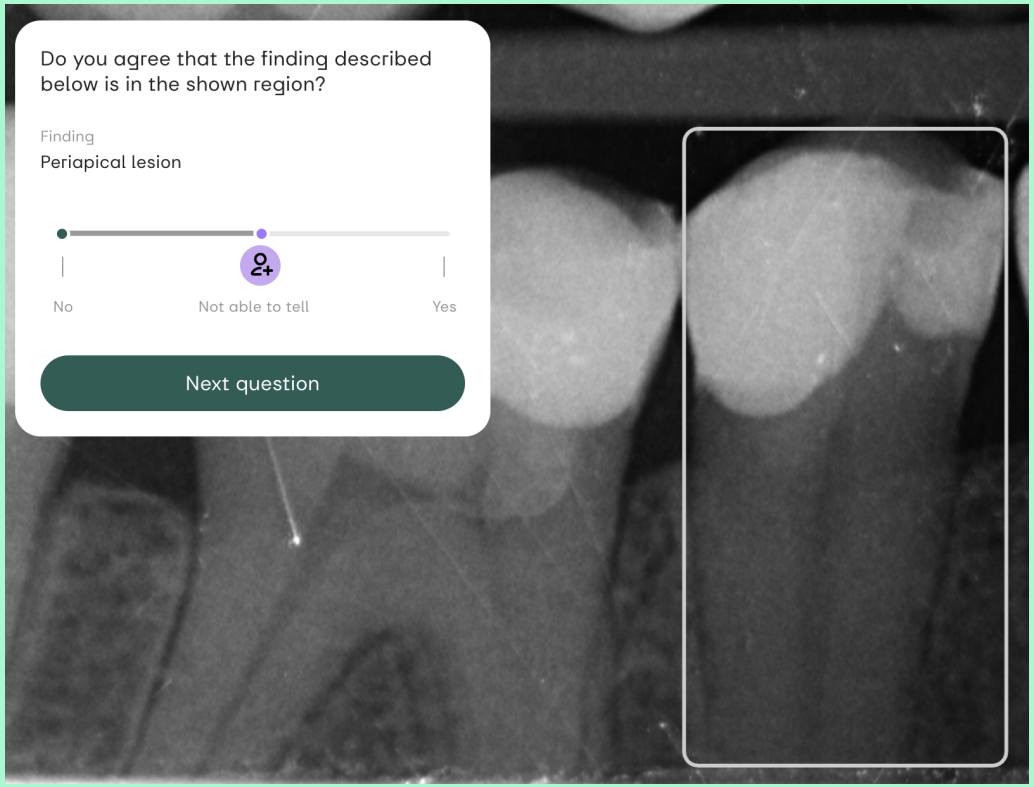
Digital Medical Record

Questions & Answers

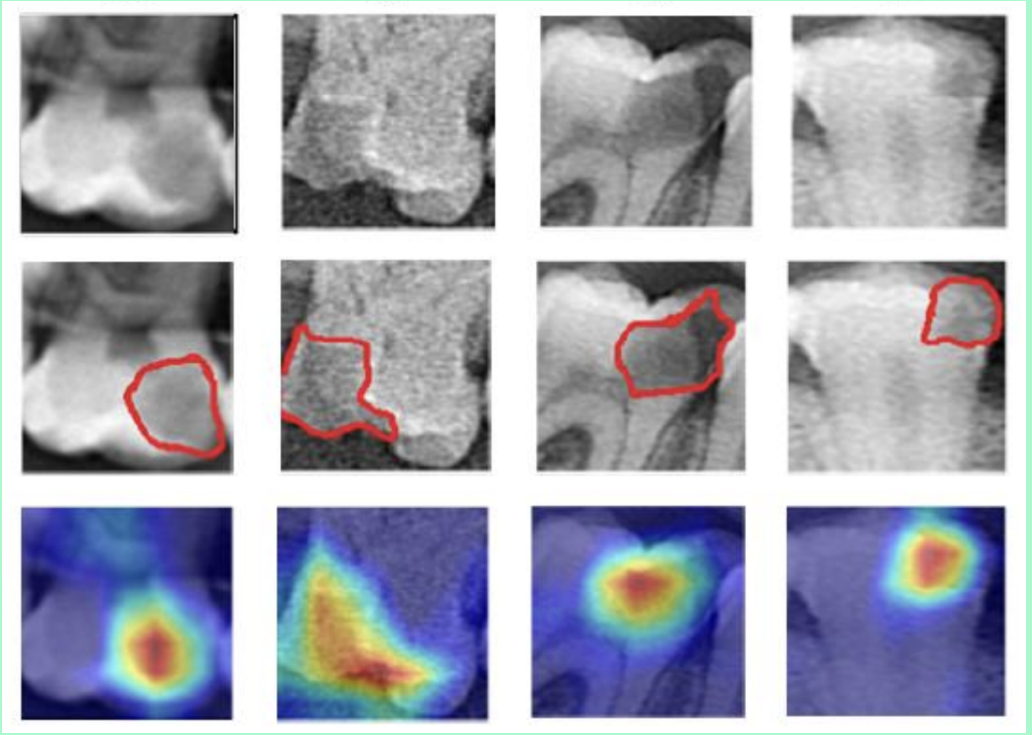


B) Real-time supervised learning

Questions & Answers

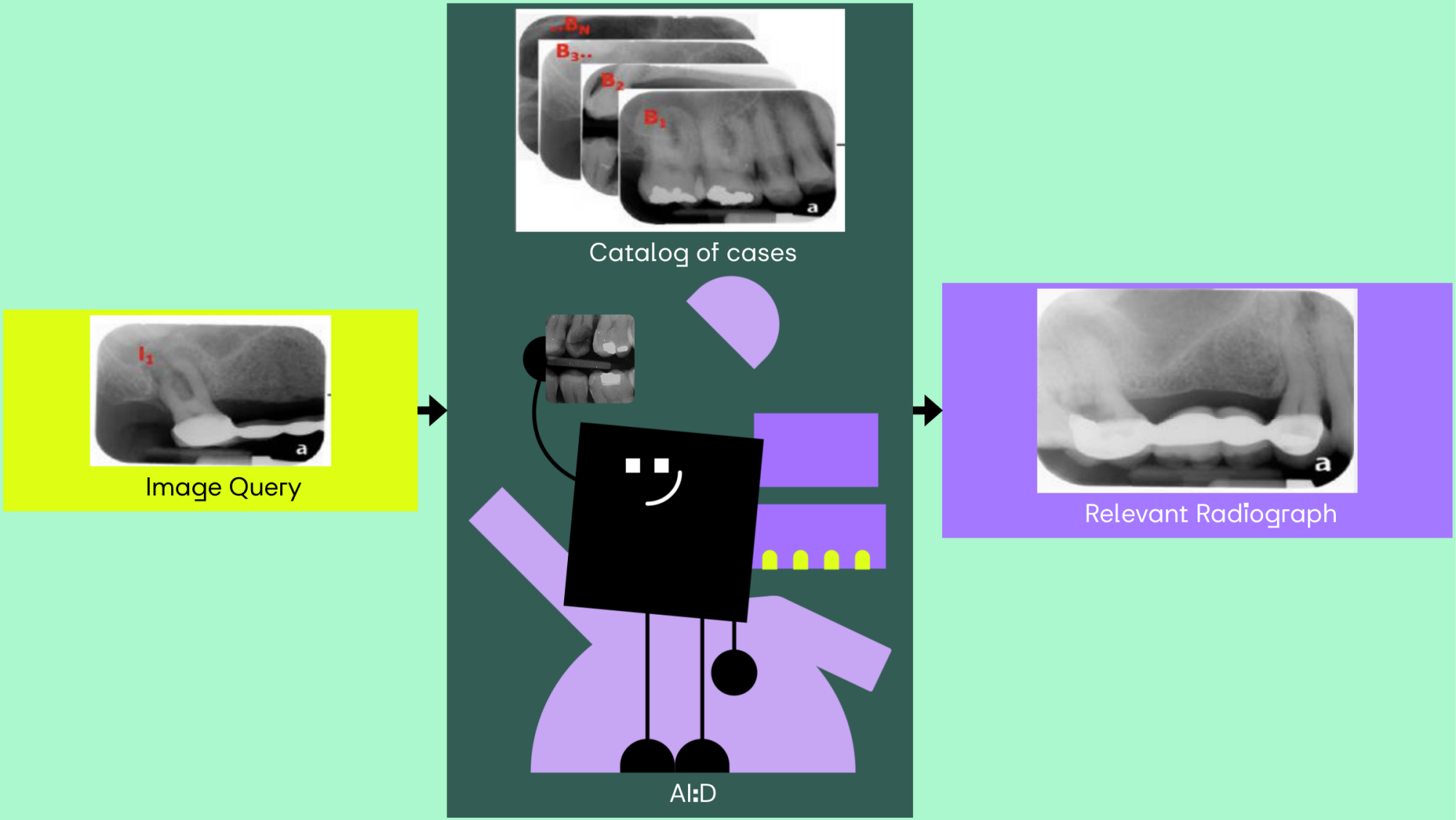


Solution explanation[3]



3. An Explainable Deep Learning Model to Prediction Dental Caries Using Panoramic Radiograph Images (2023)

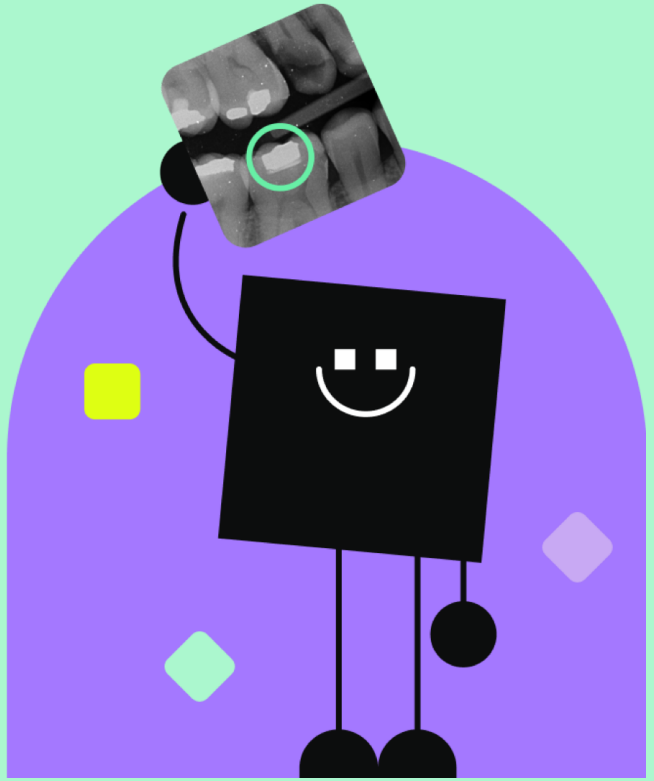
C) Search for relevant radiographs[4]



4. Dental CLAIRES: Contrastive LAnguage Image REtrieval Search for Dental Research (2023)

Better dental care

- Performance evaluation
- Employee onboarding
- Saved time & money
- Patient treatment outcomes



Let's collaborate

- Universities
- Dental clinics
- Hospital
- Case Studies
- CE Mark

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