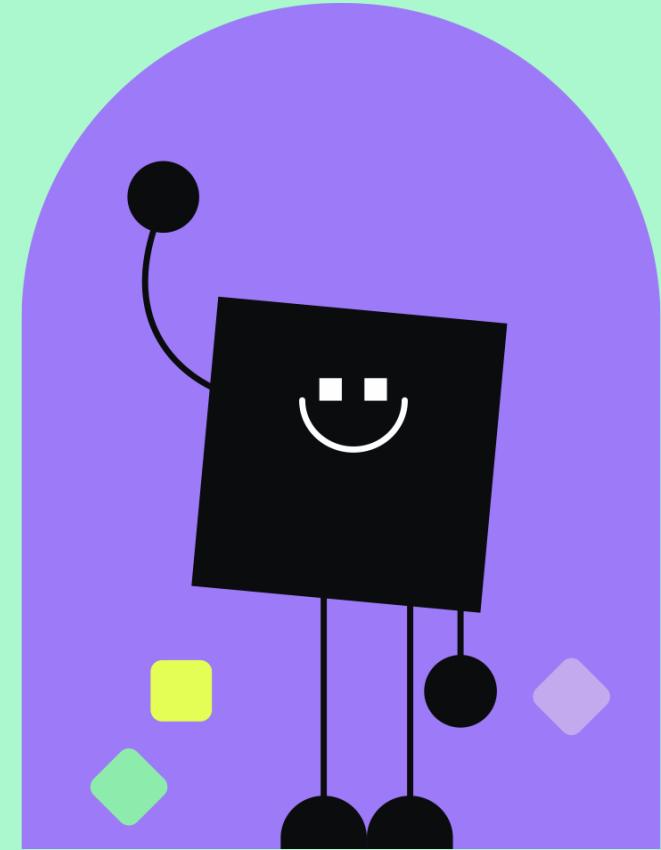


# Bridging the Gap

How AI Connects Dental Clinics with Students

AI:Dental



# Brief Intro

Peter Jurkáček

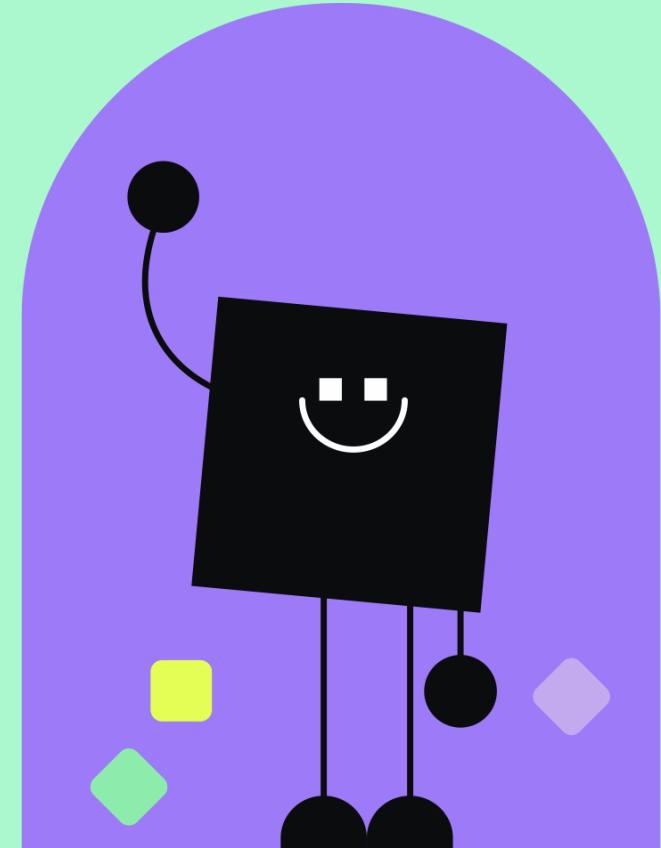
CTO at AI:Dental

[peter.jurkacek@aidental.ai](mailto:peter.jurkacek@aidental.ai)



# **Bridging the Gap**

**How AI Connects Dental Clinics with Students**

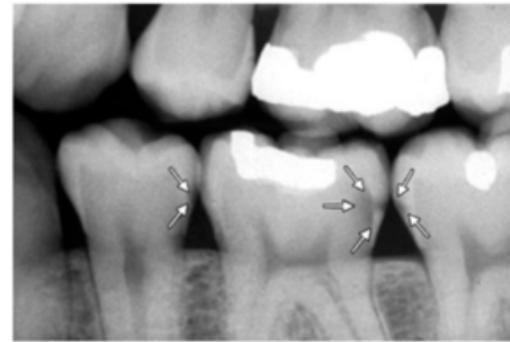


# The Gap

Dental students' accuracy ranges from  
**48% – 65%** in X-Ray interpretation

## X-Rays interpretation<sup>1</sup>

6.arrowheads here indicate?

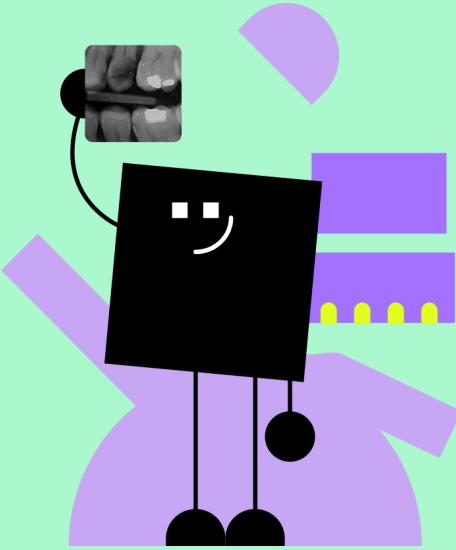


- cervical burnout
- incipient caries
- incorrect projection
- artifact

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



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

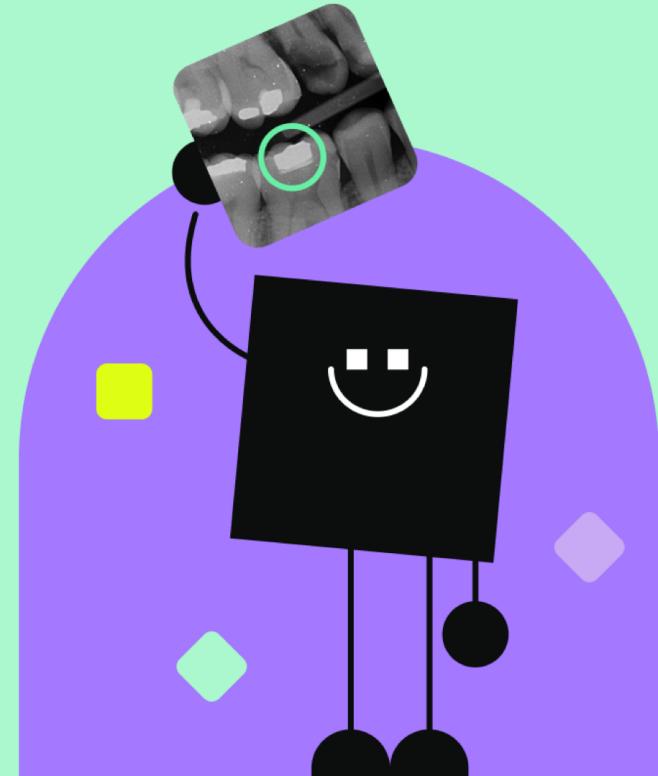


## Why the Gap?<sup>2</sup>

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

# Bridging the Gap

How AI Connects Dental Clinics with Students



# Bridging the Gap

AI:Dental Education platform & AI

The screenshot shows the AI:Dental mobile application interface. At the top right, there is a message bubble with the text "I have tips for you!" and a small purple circular icon with a white character. On the left side, there is a vertical navigation bar with icons for Home (smiley face), Home (house), Rooms (graduation cap), and You (person). The main content area is titled "Welcome Peter". Below this, there is a button labeled "Start practice". Three cards are displayed below the button: "Tagging" (purple background, X-Ray image with a green dot, description: "X-Ray tagging per patient"), "Quiz" (green background, X-Ray image with a checkmark and question mark, description: "Learn from specific dental cases"), and "Catalog" (yellow background, folder icon with a tooth, description: "Learn from catalog of cases"). At the bottom, there is a section titled "Tagging in progress" showing a thumbnail of an X-Ray image with a progress bar indicating "25 %". A "Continue" button is located at the bottom of this section.

Welcome Peter

I have tips for you!

Start practice

Tagging

X-Ray tagging per patient

Quiz

Learn from specific dental cases

Catalog

Learn from catalog of cases

Tagging in progress

25 %

Continue

# **AI:Dental Education platform & AI**

- :A Convert X-Rays to educational content
- :B Real-time supervised learning
- :C Search for relevant X-Rays

# A Convert X-Rays to educational content

## Digital Medical Record



## Questions & Answers

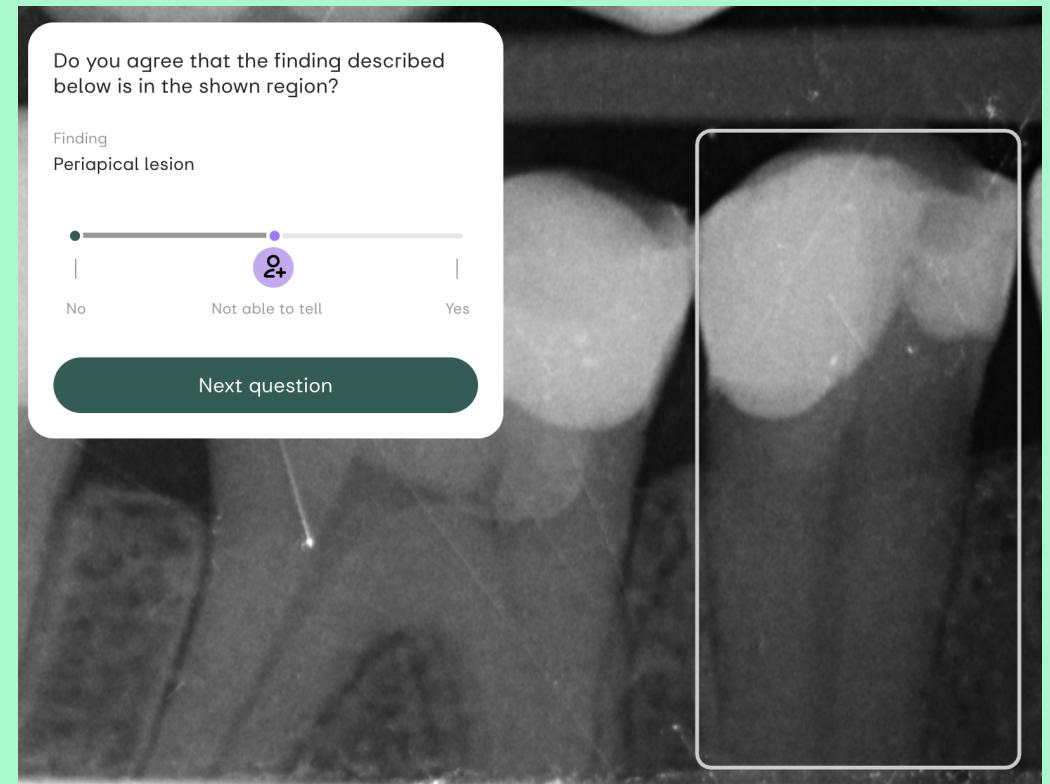
Do you agree that the finding described below is in the shown region?

Finding  
Periapical lesion

No      Not able to tell      Yes

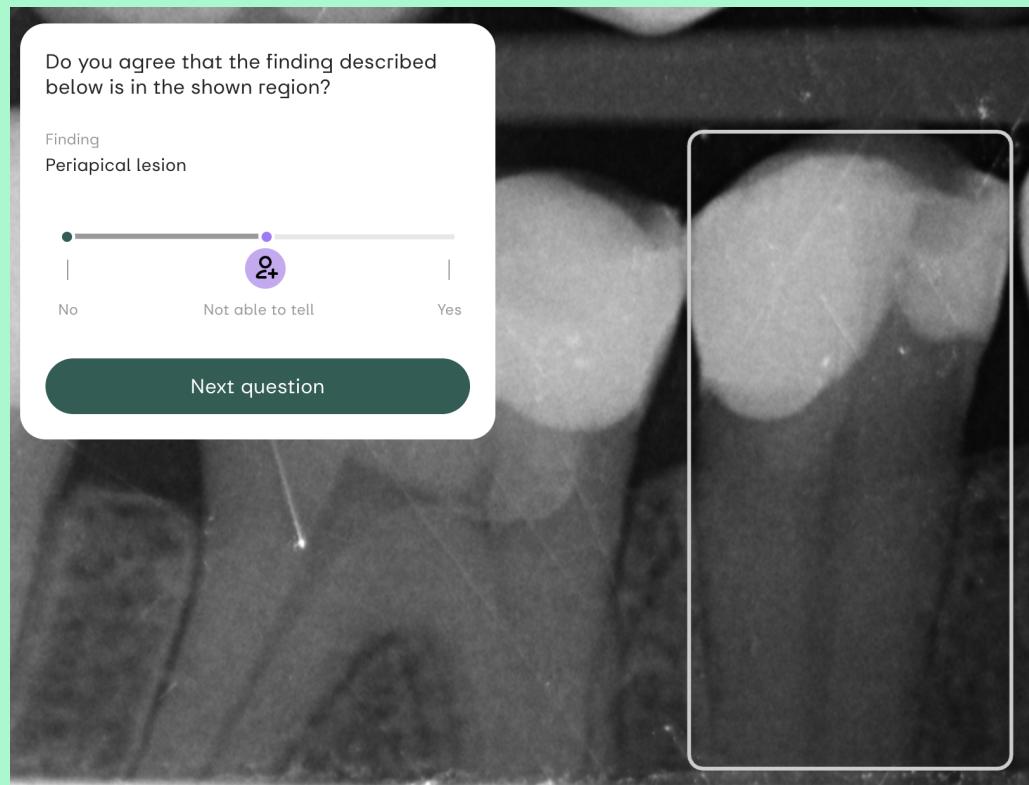
2+

Next question

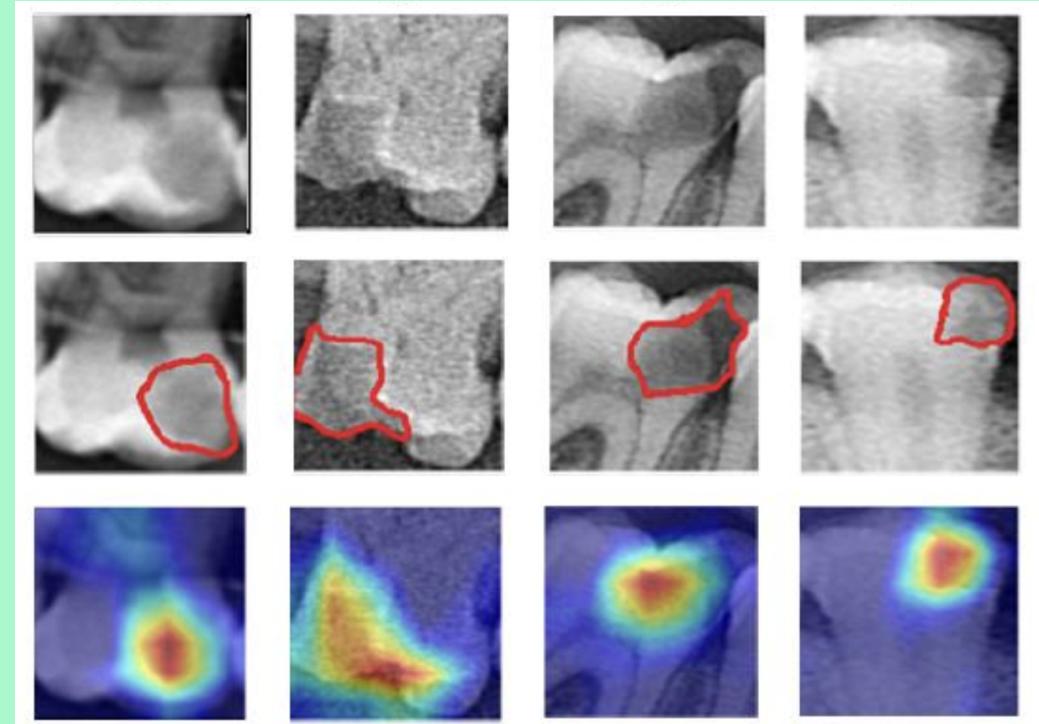


# :B Real-time supervised learning

## Questions & Answers



## Solution explanation<sup>3</sup>



# :C Search for relevant X-Rays

## Catalog of cases



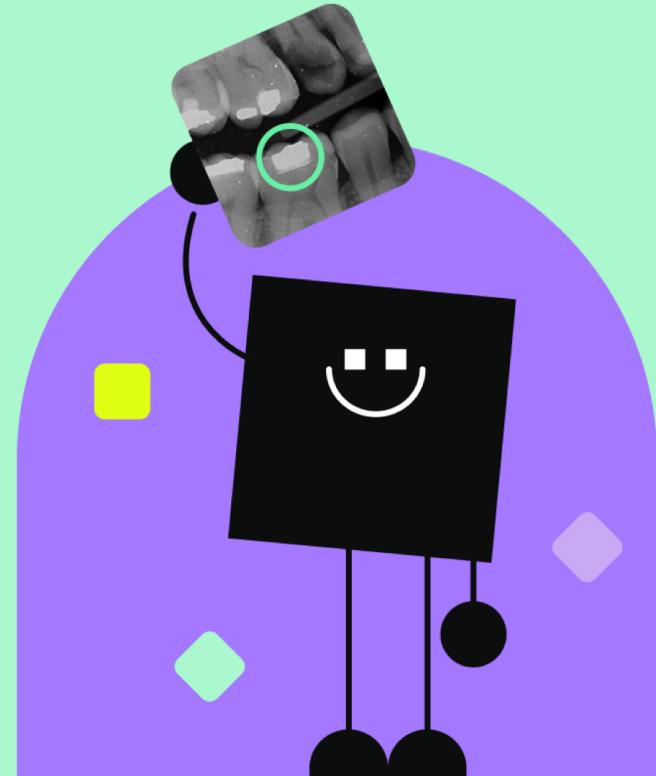
## Relevant X-Ray<sup>4</sup>

The image shows a detailed view of a dental X-ray of tooth 21. The X-ray is displayed on the right side of the interface. A white rectangular box highlights a specific area of interest on the X-ray. On the left side, there is a sidebar with the following information:

- Tooth 21 >**
- Catalog of cases**
- Tooth 21**
- Female, 18 - 34**
- Findings**
- Filling**
- Periapical lesion**
- Recommendations**
- Filling**
- Root canal treatment**

# Better dental care :D

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



# Let's collaborate :D

- Universities
- Dental clinics
- Hospital
- Case Studies

## AI:Dental

