

COST LEAD-ME: Accessibility in Digital Learning and Media Training Workshop.

Oslo, Norway. September 2024

Industry Challenge 2

Group 2

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Embedded AI Tool for Image Description

applying LLM for context recognition

Group 2



Issues with non-text content on websites

- non available alt text for certain parts (ex. advertisements)
- not embedding alt text at developer level
- the context of the website matters for the description of the image

millioner kroner

13:50 • Nyhetsstudio

rammer LHBT-miljøer

13:34 • Nyhetsstudio

for å ha drept kjæresten

13:15 • Nyhetsstudio

Debatten på NRK i kveld [→](#)

13:11 • Nyhetsstudio



Norge | Siktelsen mot Høyby

Tok kontakt med Slottet for å få erstatning og private eiendeler

Kultur | Kjønn

Hvor mange av pasientene har fått hormonbehandling? - Veldig mange, veldig mange.



Vink | Restaurant

Jakob Lorange trodde han var en dyktig servitør. Helt til han fikk jobb på Maaemo.



Karriere fra E24 | Work-life balance

Er «work-life balance» egentlig mulig?





what is this image?

This image shows the Royal Palace in Oslo, Norway. It is the official residence of the Norwegian monarch and is located at the end of Karl Johans gate in the center of Oslo. The building is known for its classical architecture and its prominent yellow facade, as well as the changing of the guards ceremony that takes place in front of the palace.



can you describe this image for me

This image features the Royal Palace in Oslo, Norway, captured during what appears to be dusk or dawn, given the warm lighting. The building itself showcases neoclassical architecture with a grand facade painted in a soft yellow hue. It has three main stories and is fronted by a series of large white columns that extend vertically, supporting a triangular pediment at the top. The entrance to the palace is marked by a series of archways and illuminated by ornate, old-fashioned lamps casting a warm glow.

In the sky above the palace, a flock of birds is seen in flight, adding movement and life to the otherwise stately and serene scene. The overall atmosphere is calm, with the palace appearing both majestic and peaceful, set against the quiet sky.



Multimodal Conversational Interface using LLM

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How it can be done?

- plugin for browser
- integrated into website at developer level

Personalize activation of the conversation mode by:

- sound (voice activation, personalised wake-up words for image description)
- hand gesture (swipe, touch, double tap, double click etc.)
- haptic feedback (vibration patterns)

Ideas for further improvement

- different voice options (customize audio speed and tone)
- system learning based on previous conversations (learning preferences)
targeting the user needs/preferences (user profiles)
- remove unnecessary content (visual distractions)