



Bone Fracture Classification based on X-ray images using Machine Learning

Shahad Alhassani Nuran Alharbi Shahad Bahartha Walaa Alslimani
Supervised by : Dr. Hind Hazaa Alsharif



College of Computers, Department of Computer Science and Artificial Intelligence

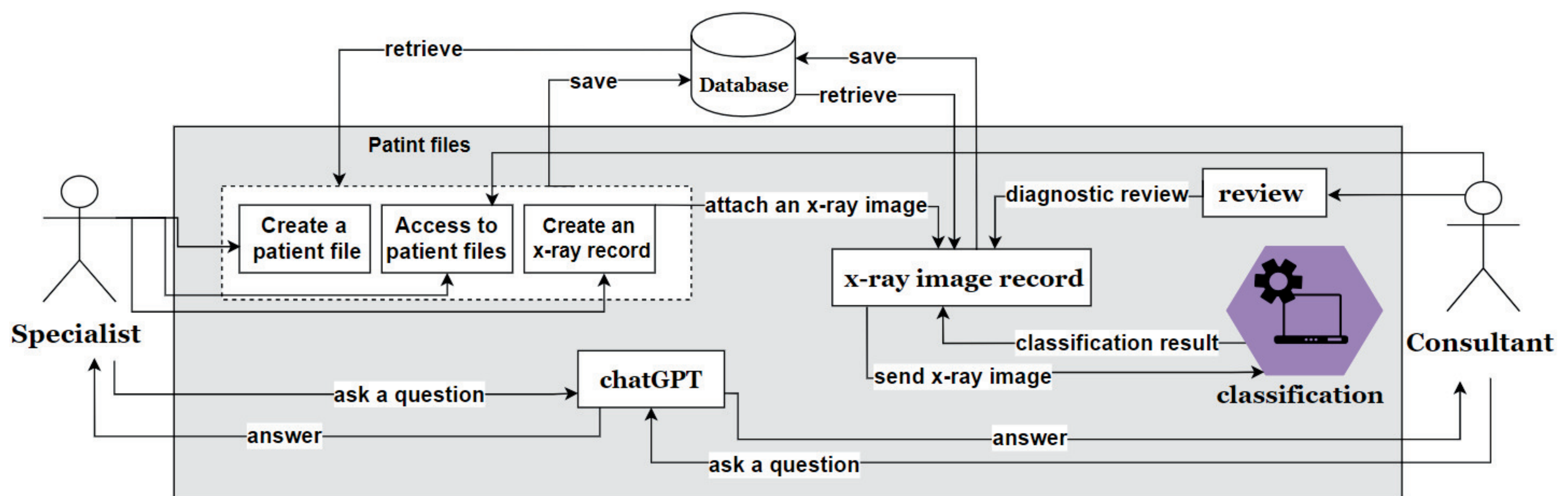
Abstract

Through our observation, we have found that some hospitals are facing a shortage in the field of medical imaging, particularly in providing rapid diagnoses. This led to our idea of assisting consultants in swiftly diagnosing cases using deep learning algorithms to process and classify X-ray images. Additionally, we have incorporated ChatGPT to aid consultants and specialists in responding to their inquiries.

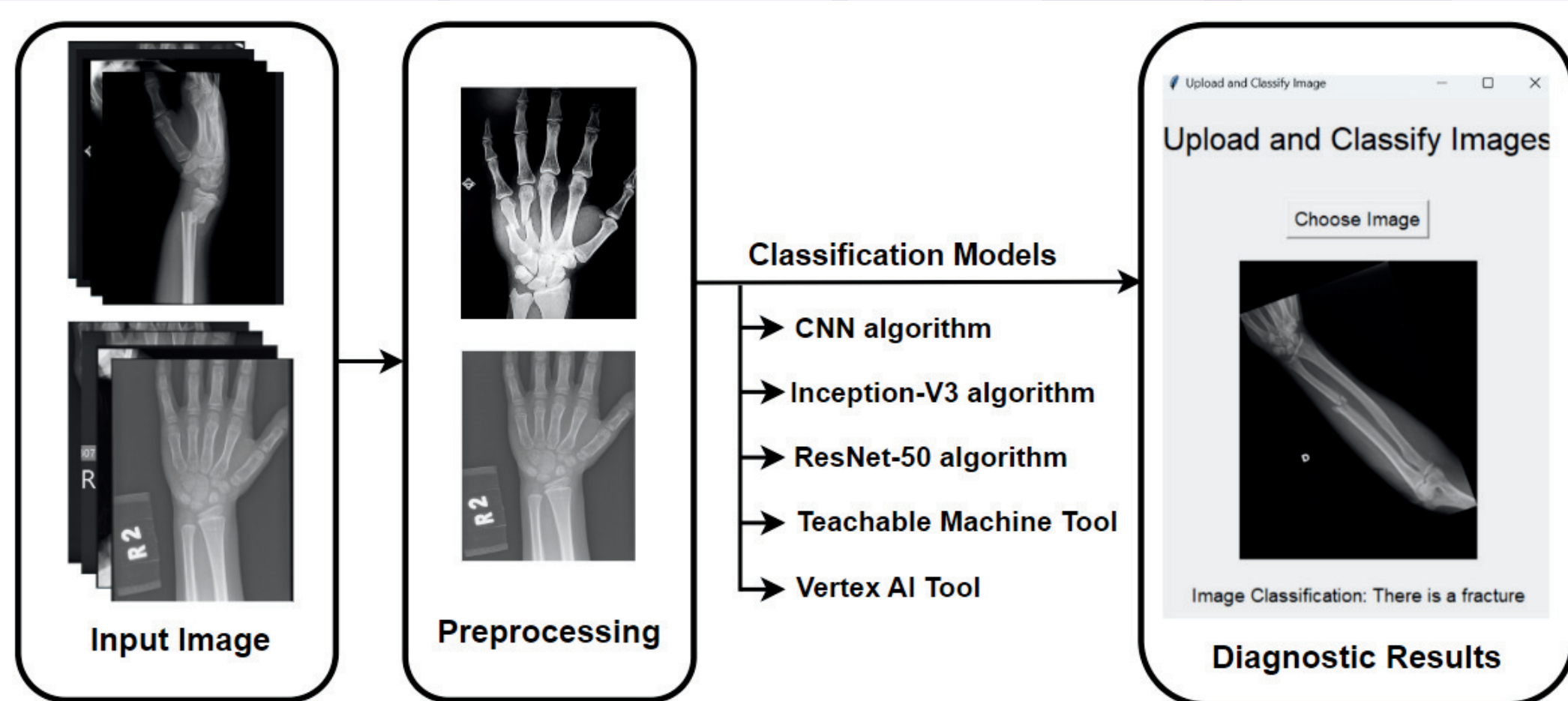
Objective

- Improving the quality of healthcare by assisting specialists and consultants in the diagnostic process.
- Utilizing deep learning algorithms to analyze and classify medical X-ray images.
- Adding ChatGPT technology to answer queries from specialists and consultants.

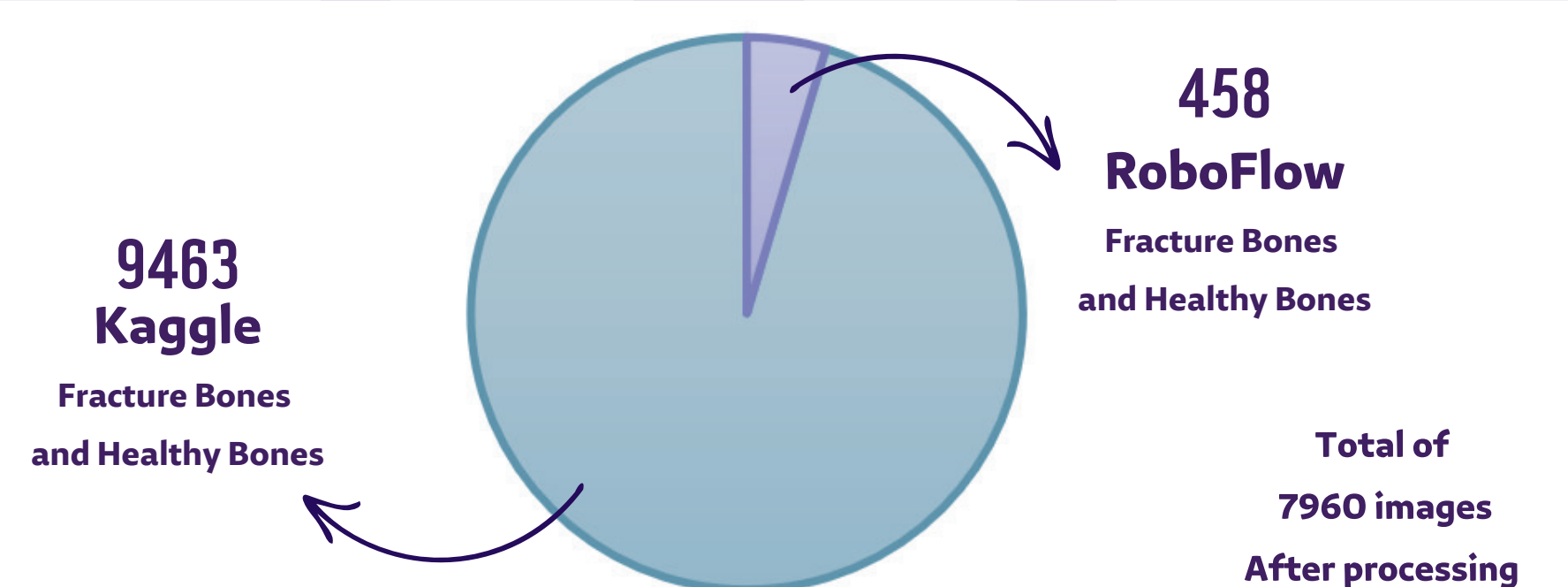
General Architecture



Classification



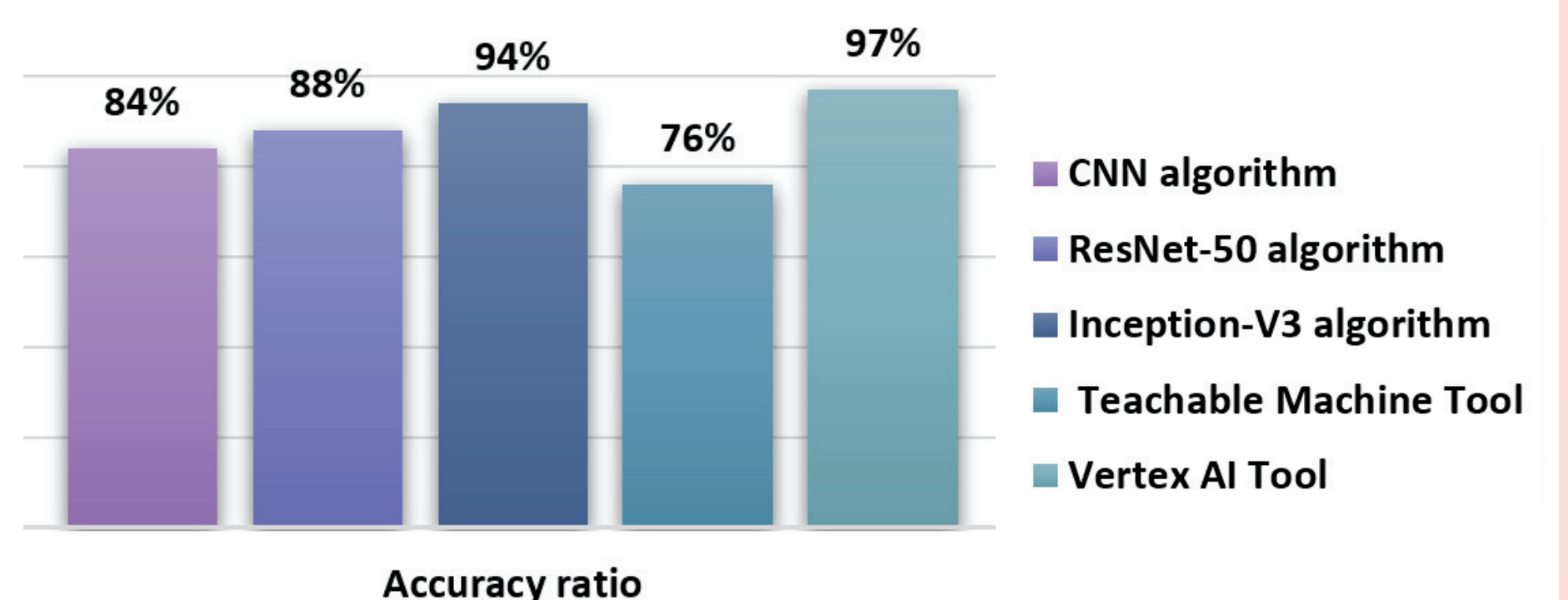
Dataset collection



Future work

- Include all types of fractures
- Specify the position of the fracture
- Specify the expected duration of treatment

Result



Tools



References and Contact



Contact



References