

Deployment of AI in hospitals: considerations beyond AI models

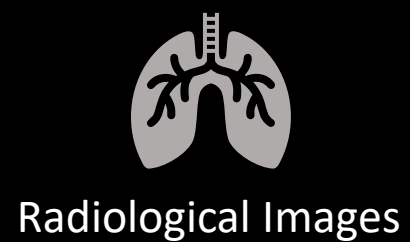
Behrooz Hashemian, PhD

February 25, 2020

MGH & BWH CENTER FOR
CLINICAL DATA SCIENCE



Model Centric Vision

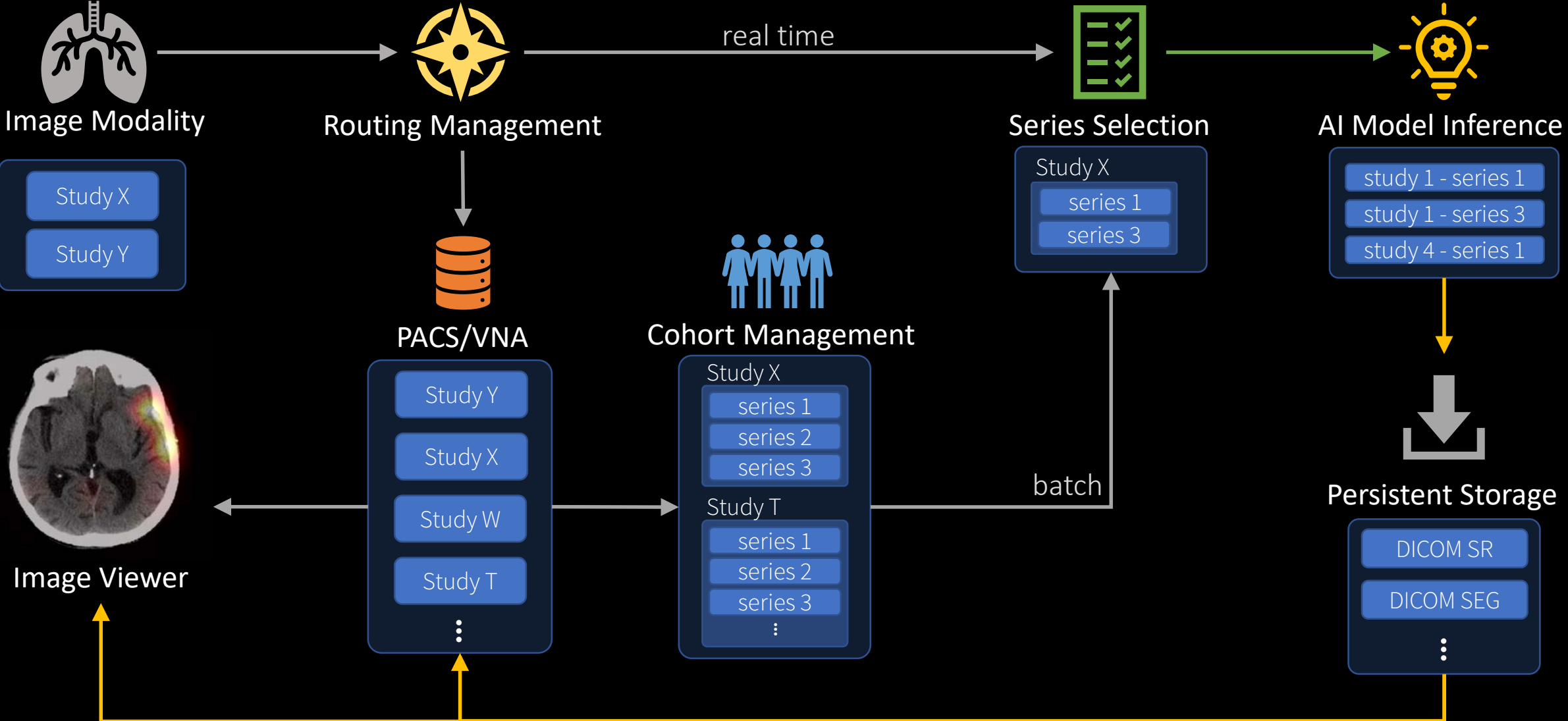


AI Model Inference

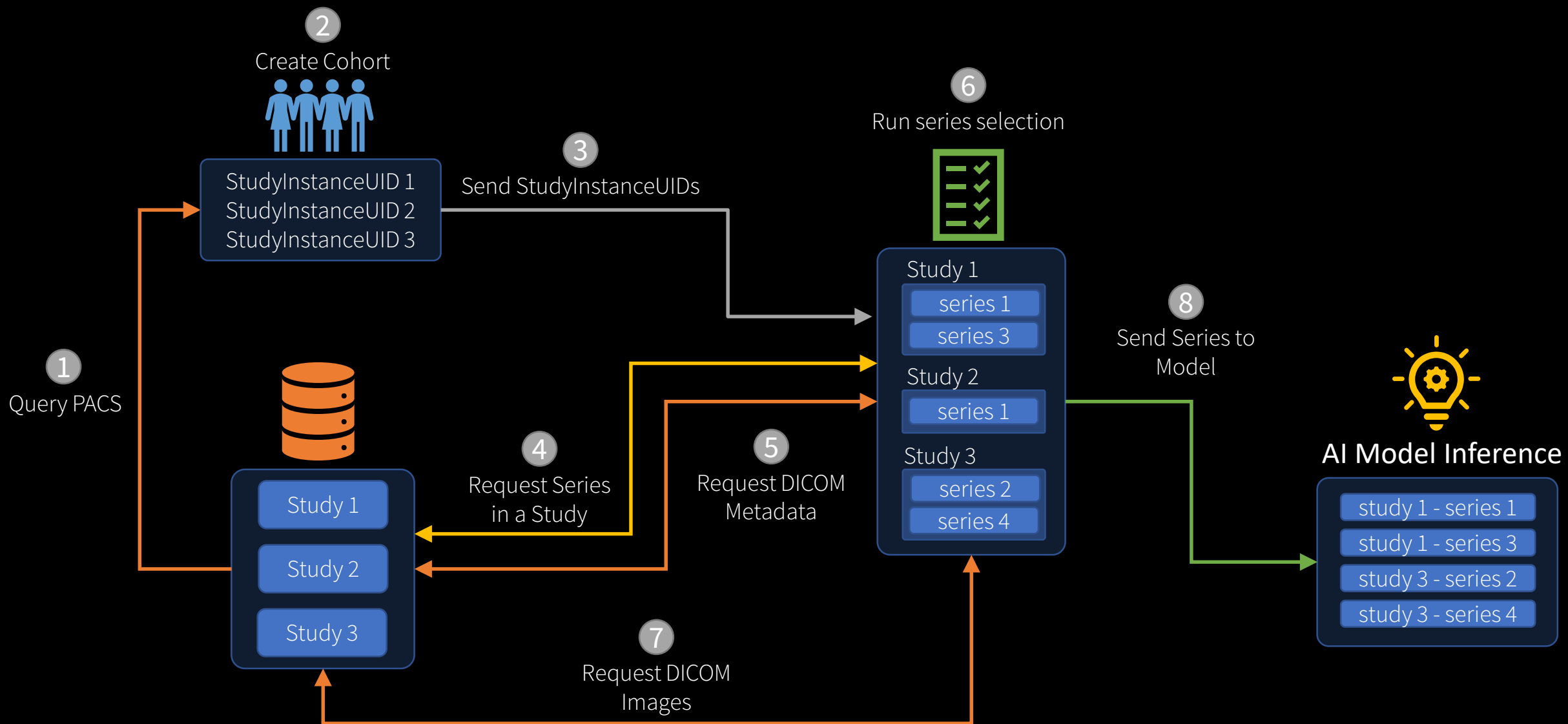


PACS

Hospital AI Deployment Pathways



Pre-inference Orchestration (batch)



Summary

- Clinical deployment of AI in hospitals has several components and the AI model is only one of them.
- Developing a robust, reliable AI model requires validation beyond a controlled environment.
- There are many orchestration processes required before AI inference can be performed on a radiological image and failure of any one of them can affect model performance.
- To ensure successful clinical deployment of AI models, the entire pipeline from data acquisition (Scanners, PACS) to model results visualization must be considered.