① Introduction to Edge AI

- Edge ≃ local processing
  ≠ in the cloud

- It is needed where low latency is required, or where network may not be available.

- It is mainly used for real-time decision-making

Applications of AI at the Edge

① Network communications can be expensive and at times impossible (remote locations / natural disasters) — edge needs no (or little) ~~intere~~ network.

② Real-time processing is needed in many applications, like self ~~dri~~ driving cars

③ Edge application can be used for sensitive data (like health data) as they are not sent to the cloud.

④ Optimization software can achieve great efficiency of edge AI models.

Reasons for development at the Edge

① Proliferation of devices

② ~~Need~~ Need for low-latency compute

③ Need for disconnected devices

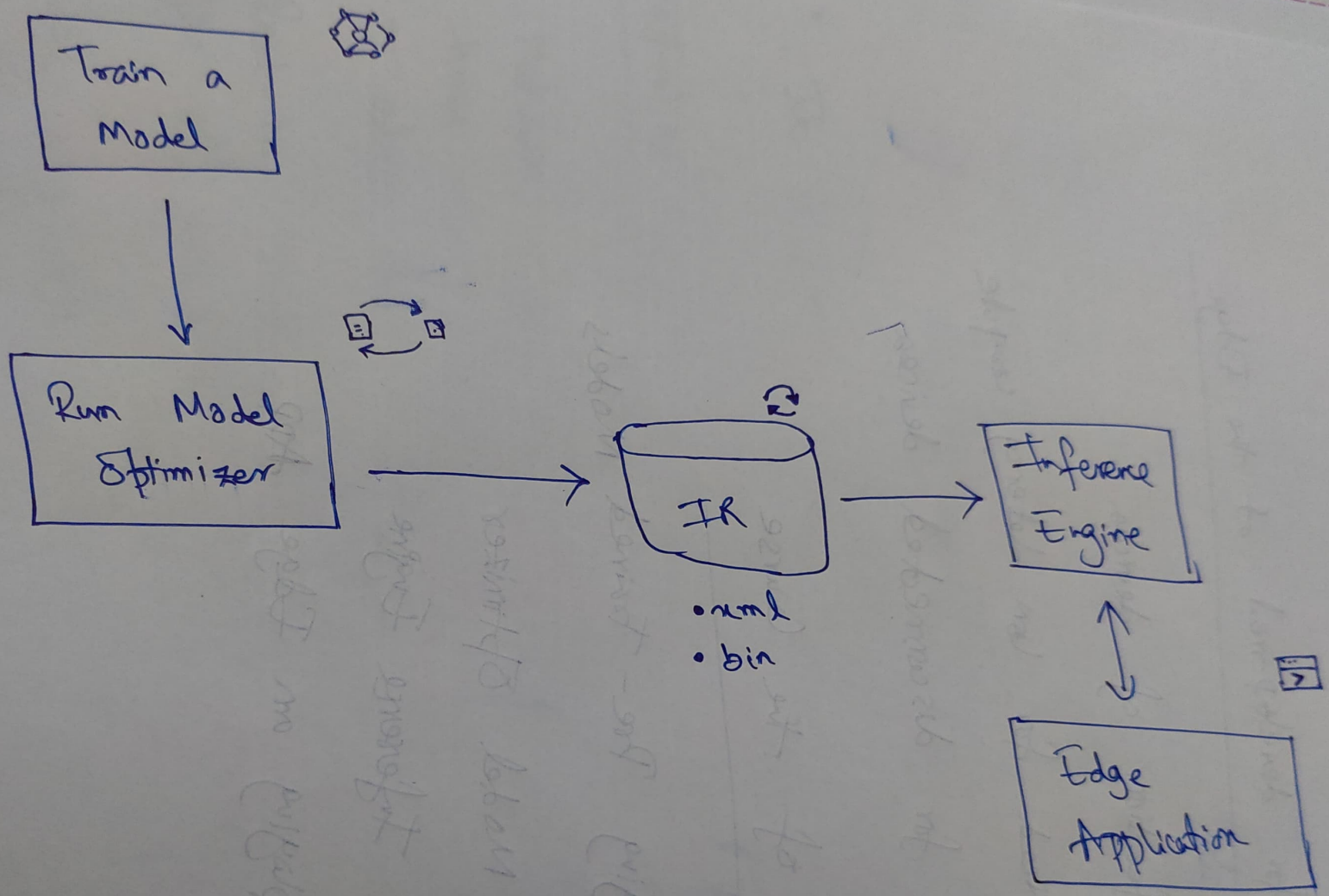
Structure of the Course

① Leveraging Pre-trained Models

② the Model Optimizer

③ The Inference Engine

④ Deploying an Edge App



flowchart of the course