**Qr Code Detection and Extraction from Invoice**

**Problem Statement :**

Automation of QR data extraction from invoices.

**Current Approach :**

Invoice -> Detect qr position + text using Pyzbar -> Build a dict of response -> create a mongo collection using pymongo -> push the response as a document to mongo collection

**Pros & Cons :**

* Simple and fast
* Detects all invoices with qr code aligned perfectly
* Works on medium and high resolution images
* No training or GPU compute required
* Preprocessing not required for medium and high resolution images although some rotation or alignment on images might be required if the invoice is not aligned perfectly

**Proposed Approach / Future Work :**

Invoice -> Detect qr position using object detection networks -> Feed the cropped region to Pyzbar to detect text -> Build a dict of response -> create a mongo collection -> push the response as a document to mongo collection

**Pros & Cons :**

* Time consuming
* GPU computes required for training
* Dataset building and hyperparameter tuning
* Accuracy in detecting text and qr code co-ordinates might be better than Pyzbar on all scenarios as we use a DL network