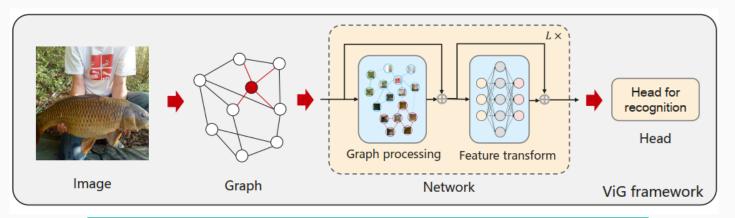
# Vision GNN-Powered Object Detection

Sagar Prakash Barad

Harnessing Vision GNNs as Backbone Feature Extractors for RetinaNet and Mask R-CNNs



RetinaNet ResNet + FPN + Focal Loss
Vision GNN

Dataset(s) - COCO Dataset, PubTables 1M Dataset, FinTab Dataset

# Work division till midterm presentation... **All by me**

### Midway Targets

- 1. Implementing the Vision GNN Variant of RetinaNet.
- 2. Reproducing the Results on COCO Dataset as Presented in the Paper.

#### Post Midsem

- Training on the PubTables 1M Dataset.
- 2. Training on the FinTab Dataset.
- 3. Exploring Other State-of-the-Art Models Utilizing ResNet as a Backbone.
- 4. Lottery Ticket Hypothesis (LTH) version of Vision GNN.

### **Expected Results**

- Achieving Similar and Improved Performance as Demonstrated in the COCO Dataset Papers.
- 2. Conducting Comparisons with Models Empowered by ResNet.