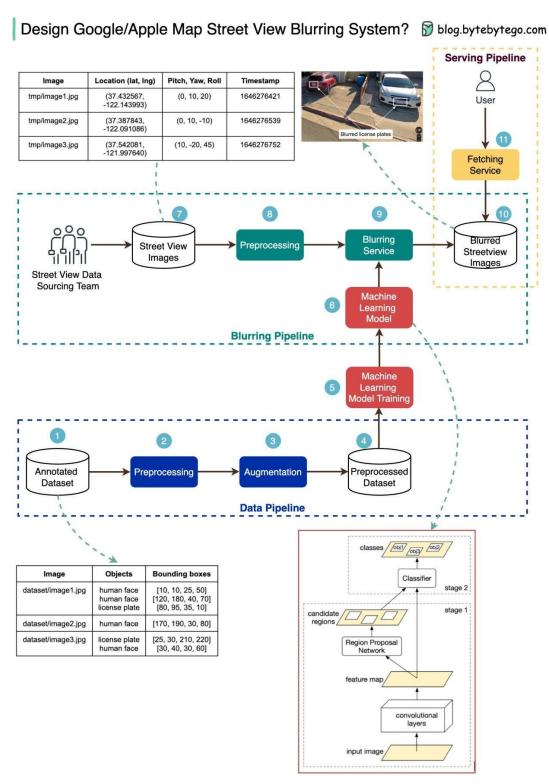
## How do Google/Apple maps blur license plates and human faces on Street View

The diagram below presents a possible solution that might work in an interview setting.



The high-level architecture is broken down into three stages:

1.Data pipeline - prepare the training data set

- 2.Blurring pipeline extract and classify objects and blur relevant objects, for example, license plates and faces.
- 3. Serving pipeline serve blurred street view images to users.

## Data pipeline

Step 1: We get the annotated dataset for training. The objects are marked in bounding boxes.

Steps 2-4: The dataset goes through preprocessing and augmentation to be normalized and scaled.

Steps 5-6: The annotated dataset is then used to train the machine learning model, which is a 2-stage network.

## Blurring pipeline

Steps 7-10: The street view images go through preprocessing, and object boundaries are detected in the images. Then sensitive objects are blurred, and the images are stored in an object store.

## Serving pipeline

Step 11: The blurred images can now be retrieved by users.