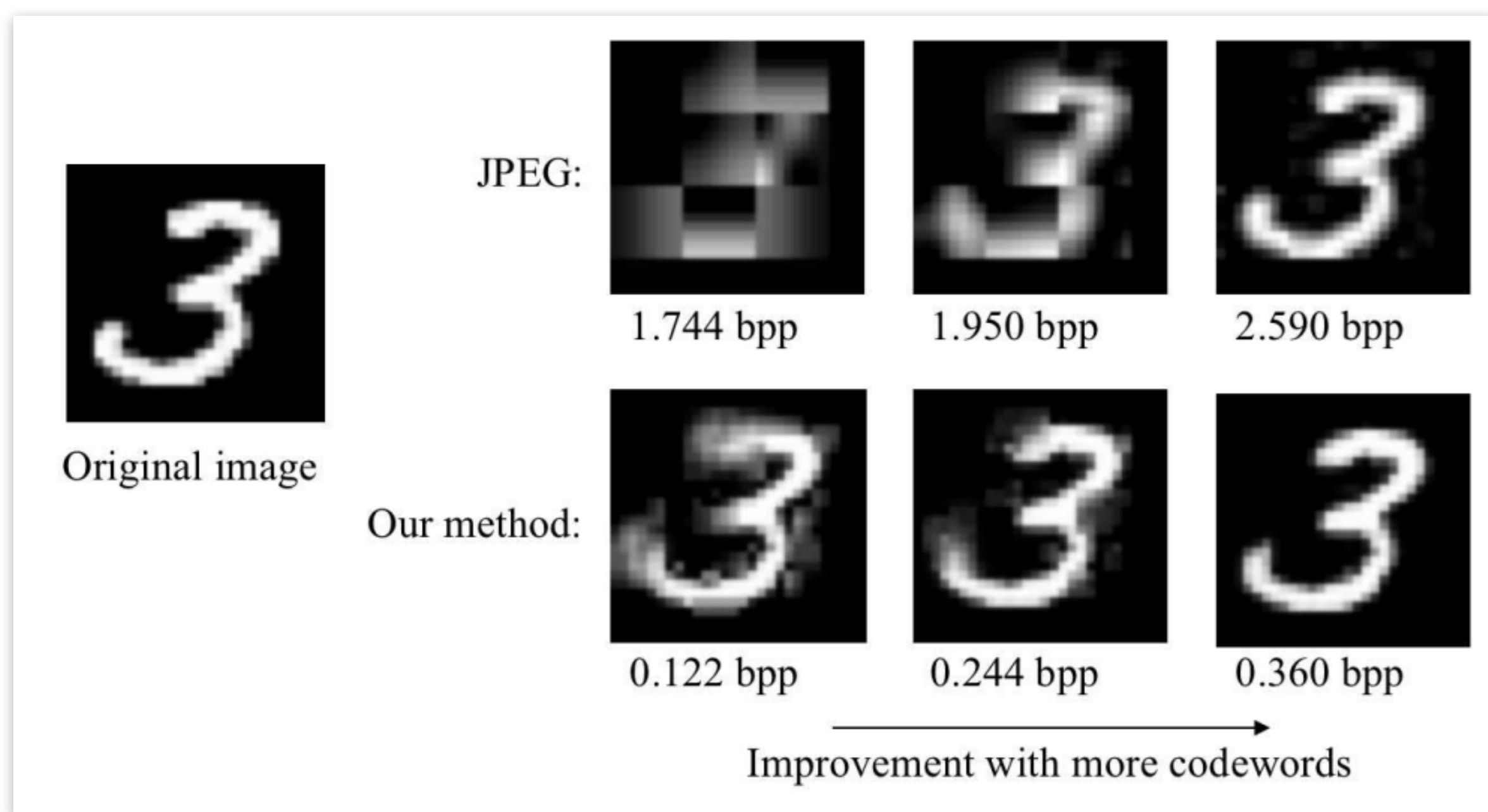


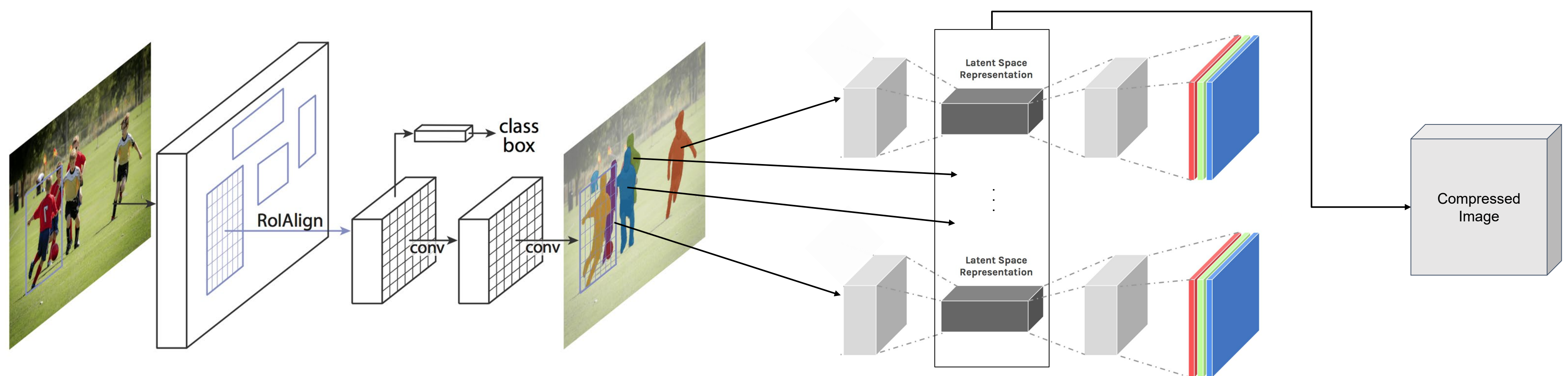
A Machine Learning Approach to Image Compression

Benefits



- Faster image loading times on low bandwidth connections
- Research can be modified to improve video compression and improve video streaming
- Less internet traffic for the same data

Model



Strategy

1. Crop out different objects in image with a Mask RCNN
 2. Compress different kinds of objects using different kinds of autoencoders
 - a. Ideally, use advanced autoencoders with attention mechanism
 3. Compressed Image obtained
- Borrowing from human behavior to design a new approach to comparing images using neural networks.
 - Splitting an image into separate objects, and compressing those differently based on the object