Time Limit: 75 minutes NOTE: This is not an exhaustive list, but a set of high level topics and associated notes that can direct your studies. You are responsible for anything we covered in lecture. I will not ask you to memorize python library calls, and you will not need to code up algorithms in their entirety.

- Visualization
  - Data exploration
  - Training performance evaluation
  - Inference performance evaluation + explainabililty
- Backpropagation
  - For conv, pooling, and dense layers
  - As it applies to a networks as a whole
- General [Sub-]Architecture Styles/Types
  - Encoder/Decoder
  - AutoEncoders
  - CNNs
  - U-Nets
  - Vision Transformers
  - Residual/Skip Connections
  - [Transposed] Convolutions
  - Pooling
  - Attention
  - Transformers
- Image Classification / Image (Semantic) Segmentation / Pixel-Wise Regression
  - Data manipulation/preprocessing
  - Architectures to use
  - Proper performance evaluation
  - Transfer learning applications