

Deep Learning - Assignment - II

- ① True
- ② False
- ③ ~~Back~~ Pro
- ③ Back Propagation
- ④ True
- ⑤ Hyper Parameter

PART-A

⑥ Both assume Linear Systems

⑦ 143

⑧ Both Pooling layers are used to reduce the dimensions of the feature maps.

⑨ It is an image model block that aims to approximate a local sparse structure in a CNN.

PART-B

① → This method uses simple matrix operations from linear algebra and statistics to calculate a projection of the original data.

→ PCA is an operation applied to a dataset.

→ It is a backbone of modern data analysis

→ A bit black box that is widely used but poorly understood

→ It is a ~~mathematical~~ mathematical tool from applied linear algebra

→ It is a simple, non-parametric method of extracting relevant information from confusing data sets.

→ Provides a ~~no~~ roadmap for how to reduce a complex data set to a lower dimension.

→ After that the data is projected on the best line, need to transform the co-ordinate system to get 1-D representation of vector x, y .

→ By finding the eigenvalues and eigenvectors of the co-variance matrix, we find that the eigenvectors with the largest eigenvalues correspond to the dimensions that ~~have~~ have the strongest correlation in dataset, and this is called as principal component.