
SPN Documentation

Release

yguan

Aug 05, 2017

Contents

1	Tutorials	3
2	User's Guide	5
3	API Reference	7
4	Indices and tables	11

SPN is library to build, train and save neural networks based on Theano.
SPN defines a neural network image on hard disk to reuse and modify.

Training Neural Networks on MNIST

This tutorial goes through MNIST digits problem to explain the usage of SPN.

Preparing the Data

Defining a MLP Network

CHAPTER 2

User's Guide

The following is the document extracted from code.

Network

`mlbase.layers`

Network input

<no title>

NonLinear
Relu
Elu
ConcatenatedReLU
Sine
Cosine

<no title>

<no title>

SeqLayer
DAGPlan

Continued on next page

Table 3.3 – continued from previous page

DAG

<no title>

<no title>

<no title>

<no title>

<no title>

<no title>

<no title>

<no title>

Network input

RawInput

<no title>

<no title>

<no title>

Cost function

Optimizer

Regularization

Utility

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`
- `search`