

Neural Networks & Deep Learning Assignment (2)

Recurrent Neural Network

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# Introduction

In an increasingly digital world, accurately understanding the emotions conveyed through written language has become crucial. This project focuses on utilizing Elman networks, a type of recurrent neural network, to classify sentence emotions. Elman networks excel at capturing temporal dependencies in sequential data, making them suitable for modeling contextual information across sentences. By training on annotated datasets, our goal is to enable the Elman network model to learn patterns and associations between word usage and emotional expression, thus enhancing sentence-level emotion analysis.

# Implementation

## Data pre-processing

Before transforming descriptional data into numerical data, we apply some instructions that was given in the project instructions file.

To remove non-letter characters used Regex library with this regular expression: “[^a-zA-Z ]” to remove non-alphabet characters. We also included space in this expression.

# Results

In this sectio

# References

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