# FIGURES

*\*\*All graphs are in the jupyter Notebook. Only the most relevant ones were included\*\**

**Part 1**

A graph of a graph showing the loss of training and validation

AI-generated content may be incorrect.

*Graph 1: validation and training loss for the RNN class using a hidden state of 20 dimensions and dropout probability equal to 0.3*

A graph with a line

AI-generated content may be incorrect.

*Graph 2: ROC curve for LSTM obtaining an AUC of 0.91.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Text** | **True Label** | **Predicted Label** | **Confidence** |
| mall financed parity basis Pearl Plaza LLC joint venture company established Chinese investor Shanghai Industrial Investment Holdings Co Ltd SRV Group | Neutral/Positive | Neutral/Positive | 1 |
| Simmons Elected Chairman PORTSMOUTH A. Simmons CEO Service Credit Union elected chairman Defense Credit Union Council 2007 2008 term | Neutral/Positive | Neutral/Positive | 1 |
| example net sales increased 5.9 quarter EBITDA increased negative EUR 0.2 mn quarter 2009 | Neutral/Positive | Neutral/Positive | 0.98 |
| Finnish steel maker HEL said today net loss contracted EUR 49 million USD 68.2 m months 2010 EUR 229 million period year ago | Neutral/Positive | Neutral/Positive | 0.99 |
| 000 Q1 2010 6 2010 Finnish textile clothing design company HEL said today net | Neutral/Positive | Neutral/Positive | 0.99 |

*Table 1: Example Predictions from Sentiment Analysis Model on Financial News*

**OPTINAL PART**

Gráfico, Gráfico de líneas

El contenido generado por IA puede ser incorrecto.

*Graph 3: ROC curve MLP classifier (0.57)*

**Part 2**

A graph with blue and orange lines

AI-generated content may be incorrect.

*Graph 4: validation and training loss for the RNN with Attention*

A graph with a blue line

AI-generated content may be incorrect.

*Graph 5: ROC curve for the RNN with Attention*

Correctly classified examples:A graph of blue squares

AI-generated content may be incorrect.

Sentence: Sullivan said boards ` ` involve lot work people paid time

True label: Positive/Neutral

Predicted: Positive/Neutral

Confidence for negative: 0.0144

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A graph of blue bars

AI-generated content may be incorrect.

Sentence: company saw net profit quarter EUR 1.4 million EUR 1.5 million corresponding period 2009

True label: Negative

Predicted: Negative

Confidence for negative: 0.8947

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A graph of blue bars

AI-generated content may be incorrect.

Sentence: new shares 2003 option rights plan Packaging company reported Monday total new shares company issued based share subscriptions 2003 option rights plan

True label: Positive/Neutral

Predicted: Positive/Neutral

Confidence for negative: 0.0041

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Incorrectly classified examples:

A graph with blue bars

AI-generated content may be incorrect.

Sentence: Finnish maker mobile phone chargers Monday posted .49 million loss second quarter compared 1.70 million profit period previous year

True label: Negative

Predicted: Positive/Neutral

Confidence for negative: 0.1076

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A graph with blue bars

AI-generated content may be incorrect.

Sentence: Finnish pharmaceuticals company Orion reports profit taxes EUR 70.0 mn quarter 2010 EUR 54.9 mn corresponding period 2009

True label: Positive/Neutral

Predicted: Negative

Confidence for negative: 0.9076

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A graph of blue rectangular bars

AI-generated content may be incorrect.

Sentence: Nokia s U.S. shares 3.3 percent lower $ 12.73 1750 GMT

True label: Negative

Predicted: Positive/Neutral

Confidence for negative: 0.0069