

MANDATE-3

SYNTACTIC PROCESSING IN THE CONTEXT OF FINANCIAL NEWS

Pratyush Ranjan
IMT2019065
pratyush.ranjan@iiitb.ac.in

Archit Sangal
IMT2019012
archit.sangal@iiitb.ac.in

In the third mandate, we have performed syntactic analysis on a few financial news headlines. We have performed **dependency parsing** through Spacy, followed by dependency parsing and **POS tagging** through **Stanford NLP**. Parse tree **visualisations** obtained through dependency parsing are also performed. Three different ways to visualise parse trees have been provided. The Spacy parse tree visualisation, the nx-graph parse tree visualisation and lastly, the dot graph visualisation of parse trees. Examples have been demonstrated where a token **changes its POS tag based on its context of use**. In the end, we have performed **Coreference Resolution** using **neuralcoref**, a neural network based model that provides coreference clusters in a given text. All the above mentioned steps have been described in detail in the Jupyter notebook attached.

LINKERT SCALE RATING

CO1 ***
CO2 *
CO3 **
CO4 ****
CO5 *
CO6 **