**TCS ION**

**RIO-125: Automate Sentiment Analysis of Textual Comments and Feedbacks.**

**Project Objective and Brief**

To develop a deep learning algorithms with an aim to detect different types of sentiment contained in a collection of English sentences or a large paragraph and accurately predict the overall sentiment of the paragraph.

**Project Guidelines**

1. Identify and finalize a collection of English sentences or a large paragraph which will also cover contradictory statements.

2. Develop a deep learning model for detection & segmentation of sentiments whether positive, negative, or neutral from the paragraph.

3. Enhance the previous algorithm to accurately predict the overall sentiment of the paragraph even if it contains contradictory statements.

4. Test the model for accuracy.

**Algorithms used:**

Sentiment Analysis (Tokenization, Stopwords removal, punctuation removal, etc.)

Regression Analysis

Hyperparameters and Fine-Tuning Hyperparameters for best configurations

N-Grams

Deep Learning Model

Enhancing Deep learning Model