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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

## **INTRODUCTION**

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01<sup>st</sup> January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**( Shri Rajendra Ratnoo )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

**23<sup>RD</sup> APRIL, 2021**

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(51) International classification	:G06N0003040000, G06N0003080000, G06K0009620000, G06F0016350000, G06Q0030020000	(71)Name of Applicant : <b>1)Dr.A.Nagesh</b> Address of Applicant :Professor, Department of CSE, Mahatma Gandhi Institute of Technology (MGIT), Hyderabad, Telangana, India. Pin Code: 500075 Telangana India <b>2)Dr.Ch.Ramesh</b> <b>3)Dr.Suma.T</b> <b>4)Mr.Sabari Ramachandran</b> <b>5)Mrs.M.Seeni Syed Raviyathu Ammal</b> <b>6)Dr.Naganaik Mudhavathu</b> <b>7)Ms.Ch.Swathi</b> <b>8)Mr.Tarun Jaiswal</b> <b>9)Dr.Sushma Jaiswal</b> <b>10)Mrs.K.Samundeeswari</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr.A.Nagesh</b> <b>2)Dr.Ch.Ramesh</b> <b>3)Dr.Suma.T</b> <b>4)Mr.Sabari Ramachandran</b> <b>5)Mrs.M.Seeni Syed Raviyathu Ammal</b> <b>6)Dr.Naganaik Mudhavathu</b> <b>7)Ms.Ch.Swathi</b> <b>8)Mr.Tarun Jaiswal</b> <b>9)Dr.Sushma Jaiswal</b> <b>10)Mrs.K.Samundeeswari</b>
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(57) Abstract :

The development of the devices with the Internet, real time big data is generating every second. The Data Mining is essential to create the meaningful data for best decision to take. This meaningful data can be achieved by preprocessing the data, normalizing the data, and classifying the data with perfect labeling. The Data Mining extracts the useful information from the real time sentiment data generated by the micro blogs such as Twitter, Facebook, and Instagram etc.; the users of these blogs expressing their sentiments leads to the huge sentiment analysis. The classification of this big data is the major challenge; the classification accuracy is low when classified with the Deep Learning (DL) technique. The present invention disclosed herein is a Novel Real Time Sentiment Data Classification System with Enhanced Long Short Term Memory comprising of: Data Collection (201); Preprocessing (202); Tokenization (203); Sentiments Tagging (204); Data Vectorization (205); Evaluation (206); Deep Learning Model (207); Enhanced LSTM Model (208); is used to improve the classification accuracy in classifying the real time sentiment data. The present invention disclosed herein uses Enhanced Long Short Term Memory (ELSTM) for classification. The performance parameters of the proposed classifier of the invention disclosed herein are accuracy, Precision, Recall, and F-Score. These performance parameters are evaluated on the Python, accuracy of 96.5%, Precision value of 0.86, Recall value of 0.76, and F-Score value of 0.69 are achieved with the invention disclosed.

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