Patent Search

Invention Title	IMAGE PROCESSING AND MCDM-BASED UNSUPERVISED SENTIMENT ANALYSIS OF RESTAURANT REVIEWS
Publication Number	40/2023
Publication Date	06/10/2023
Publication Type	INA
Application Number	202341061753
Application Filing Date	13/09/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0030020000, G06F0040300000, G06Q0050120000, G06N0003080000, G06N0003040000

Inventor

Name	Address	Country
Sharmila G	Assistant Professor, Department of CSE, Karpagam College of Engineering, Coimbatore, 641032	India
Dr. Shrinwantu Raha	Faculty, Department of Geography, Bhairab Ganguly College, Belgharia, Pin Code:700056	India
Deebika R	Assistant Professor, Department of CSE, K S R Institute for Engineering and Technology, Tiruchengode, 637215	India
Dr. Shubhangi N. Ghate	Assistant Professor, Electronics and Telecommunication Engg. Dept., Ramrao Adik Institute of Technology, D. Y. Patil Deemed to be University, Nerul, Navi Mumbai, Maharashtra, India, 400706	India
Dr. Sunil Kumar	Assistant Professor, Department of Tourism and Hospitality Management, Mizoram University, Aizawl, Mizoram, 796004	India
S Shireesha	Assistant Professor, MBA Department, Institute of Aeronautical Engineering, Dundigal, Hyderabad-500043	India
Komal Umare Thool	Assistant Professor, Department of Electronics and Communication Engineering, Shri Ramdeobaba College of Engineering and Management, Nagpur-440013	India
Pankaj Singh Chandel	Lecturer, Department of Tourism Management, Dev Sanskriti Vishwavidyalaya, Haridwar	India
Anish Mondal	Hospitality Administration, National Council for Hotel Management of Hospitality, Noida, 201309	India
Rajesh G	Assistant Professor, Department of Computer Applications(PG), KGiSL Institute of Information Management, Coimbatore-641035	India
Surendren D	Assistant Professor, Department of Computer Applications (PG), KGISL Institute of Information Management, Coimbatore-641035	India
Vaddithandra Vijaya	Assistant Professor, Department of CSE AIML, Kandlakoya Village, Medchal Rd, Hyderabad, Telangana, 501401	India

Applicant

Name	Address	Country
Sharmila G	Assistant Professor, Department of CSE, Karpagam College of Engineering, Coimbatore, 641032	India
Dr. Shrinwantu Raha	Faculty, Department of Geography, Bhairab Ganguly College, Belgharia, Pin Code:700056	India
Deebika R	Assistant Professor, Department of CSE, K S R Institute for Engineering and Technology, Tiruchengode, 637215	India
Dr. Shubhangi N. Ghate	Assistant Professor, Electronics and Telecommunication Engg. Dept., Ramrao Adik Institute of Technology, D. Y. Patil Deemed to be University, Nerul, Navi Mumbai, Maharashtra, India, 400706	India
Dr. Sunil Kumar	Assistant Professor, Department of Tourism and Hospitality Management, Mizoram University, Aizawl, Mizoram, 796004	India
S Shireesha	Assistant Professor, MBA Department, Institute of Aeronautical Engineering, Dundigal, Hyderabad-500043	India
Komal Umare Thool	Assistant Professor, Department of Electronics and Communication Engineering, Shri Ramdeobaba College of Engineering and Management, Nagpur-440013	India
Pankaj Singh Chandel	Lecturer, Department of Tourism Management, Dev Sanskriti Vishwavidyalaya, Haridwar	India
Anish Mondal	Hospitality Administration, National Council for Hotel Management of Hospitality, Noida, 201309	India
Rajesh G	Assistant Professor, Department of Computer Applications(PG), KGiSL Institute of Information Management, Coimbatore-641035	India
Surendren D	Assistant Professor, Department of Computer Applications (PG), KGISL Institute of Information Management, Coimbatore-641035	India
Vaddithandra Vijaya	Assistant Professor, Department of CSE AIML, Kandlakoya Village, Medchal Rd, Hyderabad, Telangana, 501401	India

Abstract:

The present invention introduces an innovative system and method for revolutionizing the analysis of restaurant reviews. By seamlessly integrating advanced text an processing techniques with Multicriteria Decision Making (MCDM) methodologies, this invention enables a holistic approach to restaurant review analysis. Unlike trad sentiment analysis methods that rely on labeled data, the invention leverages unsupervised learning, reducing the need for extensive data labeling and making it ada wide range of languages and restaurant environments. Through the combination of textual and visual sentiment analysis, the system generates comprehensive senti for each restaurant review, empowering both consumers and restaurant proprietors with deeper insights into customer experiences and preferences. This invention significant advancement in enhancing the quality of restaurant services and decision-making processes within the food industry.

Complete Specification

Description:The present invention relates to the field of natural language processing, computer vision, and data analytics. More specifically, it pertains to the autom analysis of restaurant reviews, encompassing the extraction of sentiment information from textual content and the processing of visual content associated with res reviews. The invention utilizes Multicriteria Decision Making (MCDM) techniques to combine these data sources, enabling unsupervised sentiment analysis that pro valuable insights into customer opinions and satisfaction with respect to dining experiences at various restaurants.

BACKGROUND OF THE INVENTION

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain asp the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understan the reader with respect to the present disclosure, and not as admissions of prior art.

In today's digital age, online platforms and social media have become primary sources for consumers to express their opinions and experiences, particularly in the of restaurant dining. Restaurant reviews, posted on websites, mobile applications, and social media platforms, have become valuable resources for prospective din seeking information and insights into the quality of dining establishments. These reviews often encompass a wide range of factors, including the quality of food, ser ambiance, and overall customer experience.

While the abundance of restaurant reviews provides a wealth of information, their sheer volume and unstructured nature present significant challenges for both

View Application Status