

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411053617 A

(19) INDIA

(22) Date of filing of Application :14/07/2024

(43) Publication Date : 26/07/2024

(54) Title of the invention : DYNAMIC ALLOCATION SYSTEM FOR INTEGRATED CLOUD-FOG COMPUTING IN SMART HOMES

(51) International classification :G06Q0030020000, G06Q0050000000, G06N0003080000, G06N0003040000, G06F0040560000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HARSH VARDHAN
 Address of Applicant :126/9A, Block R, Govind nagar, Kanpur -----

2)Ruchika
3)Rajender Singh Chhillar
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Ruchika
 Address of Applicant :Department of Computer Science and Applications, Maharshi Dayanand University, Rohtak , Haryana, India -----
2)Rajender Singh Chhillar
 Address of Applicant :Department of Computer Science and Applications, Maharshi Dayanand University, Rohtak , Haryana, India -----
3)Harsh Vardhan
 Address of Applicant :Department of Computer Science, School of Engineering & Technology, K. R. Mangalam University, Gurugram, Haryana, India-122103 -----

(57) Abstract :
 AI-powered tools have become instrumental in tackling various business challenges, particularly in optimizing sales and marketing strategies. Despite the widespread use of social media marketing campaigns, their success often hinges on specialized expertise and significant human effort, rendering them costly. This expense is particularly burdensome for Small and Medium Enterprises (SMEs), limiting their ability to effectively utilize social media for revenue and brand growth. To address this issue, we propose a system and methodology for automatically generating marketing campaigns using AI models and a data-driven approach. Our approach involves leveraging a Kaggle dataset for supermarket analysis to experiment with Natural Language Generation (NLG) technology, which uses predefined queries for text generation. Additionally, we use Deep Learning-Based Object Detection to retrieve images from a database, enhancing the visual appeal of the campaigns. This method reduces the manual effort required, improves efficiency, and extends the reach of marketing campaigns through enhanced social media publishing. Validation by industry experts has shown promising results and positive feedback on the approach's effectiveness.

No. of Pages : 17 No. of Claims : 4



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 Government of India

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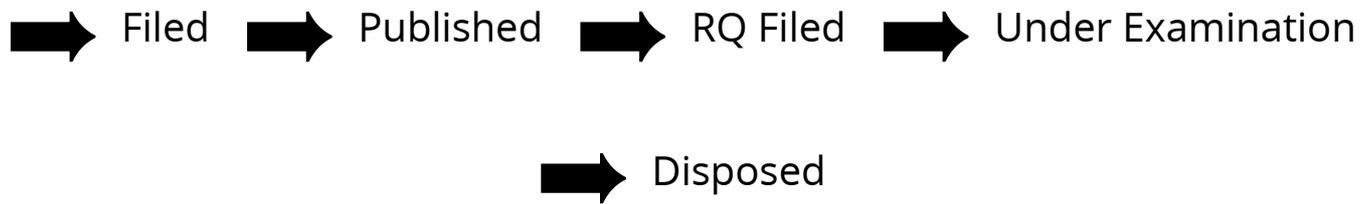


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Application Details	
APPLICATION NUMBER	202411053617
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/07/2024
APPLICANT NAME	1 . HARSH VARDHAN 2 . Ruchika 3 . Rajender Singh Chhillar
TITLE OF INVENTION	DYNAMIC ALLOCATION SYSTEM FOR INTEGRATED CLOUD-FOG COMPUTING IN SMART HOMES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	vardhan2520@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	26/07/2024

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

			View Documents
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