Title: Refining social Media influence Prediction a comparitive Evaluation of Random Forest and Ada Boost for improved Accuracy in Marketing strategy. Paragraph 1!

Defination!

- * The machine learning techniques to forecost the Potential impact or user content may have social media platform.
- * Analysis of Engagement, interactions these Predictive models.
- * To Provide insights a user content audience, aiding in decision making for marketing purpose.
- * The Goal Provide marketers insights, tailor marketing strategies for optimal reach impact dynamic landscape

Impostance:

- 1) Business and marketing! It servers a Powerful Platforms for business to reach and target audience. It is cost effective way to Promote Product & services.
- e) Awarness and Activism! plays a crucial role raising awarness about issues, Promoting activism.
- 3) Global connectivity! Breakdown barries connectivity ReoPle diverse back grounds clusters globalized digital community.

Applications:

- * The Professional network connected with family, friends & college
- * To share information content, articls, videos and creative expression for brand awarness.
- * Real time news & information dissemination. global events
- * customer support through social media channels feedback

Paragraph 2!-

Number of Articles:

* science direct - 501

* IEEE - 807

* Google scholar-1245

most cited Asticles:

- [1] Li, singxuan, et al. "social network user influence sense making and dynamic prediction." Expert system with applications 41.11(2014): 5115-5124.
- [2] Alizadeh, Meysam, et al. "content-based features Predict social media influence operations." science advances 6.30(2020)! eabb 5824.
- [3] Al Marouf, Hasan(2020): comparitive Analysis feature selection algorithium for computional Personality Prediction for social media. IEEE Transctions on computional social systems, 7(3) 587-599.

[4] Yu, sheng, and subhash kak. "A survey of Prediction using social media." arxiv Preprint arxiv: 1203.1647

Best study:

- * Illustrating the latent capacity of Machine learning techniques in anticipation of social media in similar setting.
- * Business Promotion Powerful for marketing strategy and advertising are high income.
- * They increased demand & supply occurrences in future.

Paragraph 3:

Existing Algorithium:

- * Enisting Algorithium, the accurage is less because of the comparision of short Period of data.
- * The Machine trained used the enisting can Predict the social media influence in marketing strategy

Aim of the Algorithium:

utilizing the machine learning Algorithium and social media influence analysis to develop robust models and Predict influence of users on social media content. Enhancing morket strategies Provide insights, ultimately Lecision making Process for business and organizations.

Materials and Methods:

Paragraph 1:

study setting: SIMATS school of Engineering.

STORY OF STATE OF STREET

No of Groups: 2

Group 1: Random Forest

Croupe! ADA BOOST

sample site! 5

pataset: Predicting accuracy occurances of social media

G Power: 80.1.

Paragraph 2!

Pata sample PreParation

Group 1: Random Forest

* Information: pataset

* Apply Random Forest Algrorithium.

* calculate total no of users see in Post

* calculate accuracy of social media influence Poediction.
Paragraph 3:

* Data sample Prelavation

Group 2: ADA BOOST

* Information: pataset

* Apply Random REgresston Algorithium.
Apa Boost

- * calculate total no of People see in Post
- * calculate accuracy of social media influence Prediction.

Paragraph 4:-

Testing setup

- * Google colab
 - * in Intel 8th Gen
 - * 8GB RAM
- * windows 10 os

Paragraph 3!

statistical Analysis:

- * utiliting vension 26.0 of IBM spss software, computation were Performed
- * Provided values are -> Mean
 - -> standard deviation
 - -) standard Error Mean
- * Independent variable: inden, Age, Education, Field, settlement, New vs old Users, QOL, IAT.
- * Dependent variable: social media time in hours
- * Analysis Done: tes
- * Result: Random Forest has better Prediction than the ADA Boost.

- * Notably independent variable of interest is rough score.
- * Defendent variable of Research site and recorded data utilized of T- Test outcomes.

Limitations!

- * In order to maximite the fetch time and increase the accuracy.
- * Bulk Data Analysis is complicated.

Future scope:

* Accuracy increased using Random Forest Algorithian

Testing Procedure:

- * Prefaring the Dataset
- * Train 70 1. of Dataset
- * test 30 % of Dataset
- * create Embedded model using Random Forest Algorithian

Results and Discussions:

* Improving Accuracy in Prediction of social media influence analysis in marketing strateties by minimizing false datasets.

Paragraph 1:

In this study we defined that Random Forest Algorithium has better Prediction than ADA BOOST Paragraph 2:

Algorithium

Data collection:

- * Data is trained
- * saved Embedded Model
- * Input sample Dataset

Age: Above 28

Education! Bachelor pegace

Field: Engineering

settlement: urban.

conclusion!

* The analysis of Random Forest and RADABOOST
fore costing social media's influence on marketing
strategy, both techniques.

* Models enhances Predictive copabilities, empowering strategies with more Precise insights

Group Statistics

ACCURACY	ALGORITHM	N	Mean	Std. Deviation	Std. Error Mean	
	RF	20	93.90	1,744	.390	
	ADB	20	76.65	3.543	.792	

Independent Samples Test

Levene's Test for Equality of Variances

t-test for Equality of Means

95% Confidence Interval of

						Sig. (2-	Mean	Std. Error	the Difference	
		F	Sig.	t	df	tailed)	Difference	Difference	Lower	Upper
Y	Equal variances assumed	4.547	.040	19.533	38	.049	17.250	.883	15.462	19.038
	Equal variances not assumed			19.533	27.697	.049	17.250	.883	15.440	19.060

