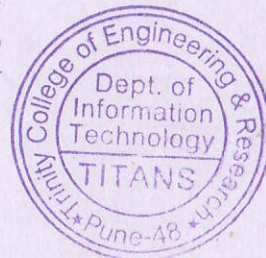




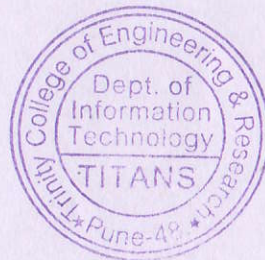
KJ's Educational Institutes  
Trinity College of Engineering & Research, Pune.  
Department of IT  
BE(IT) PROJECT DETAILS

A.Y- 2023-24

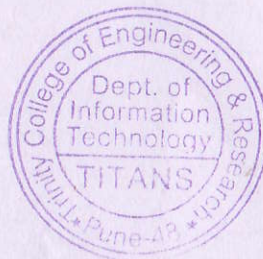
Sr. No.	Roll No	Names of the Student	Email ID	Contact No	Project Title	Domain	Guide & Co-Guide	Sponsored/In-house
PR20232 4_01	IT4056	Saad Shoukat Sayyed	sayyedsaad9604@gmail.com	8208495517	Edtech platform	Web Technology	Prof. Ashish Kadam	
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PR20232 4_02	IT4023	Yash Jagdale	yashjagdale1942@gmail.com	7798129191	Limbic Mate	Artificial Intelligence	Prof. Tukaram Dethé	
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PR20232 4_03	IT4046	Heet Patel	hheetgautampatel9999@gmail.com	9325310450	Quantum classification	Quantum Machine learning	Prof. Richa Agarwal	
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PR20232 4_04	IT4008	Uday Bhamre	Udaybhamre10@gmail.com	8177998674	Document verification and storage	blockchain	Prof. Pravin Kamble	
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	IT4067	Harishankar Thakur	Harishankar00thakur@gmail.com	9011100621				
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	IT4037	Sakshi Kumbhar	<a href="mailto:sakshishrutika@gmail.com">sakshishrutika@gmail.com</a>	7057064418			
	IT4060	Sakshi Shinde	<a href="mailto:sakshishinde745@gmail.com">sakshishinde745@gmail.com</a>	8767236576			
PR20232 4_06	IT4027	Shruti Jangalgi	<a href="mailto:shrutijangalgi2002@gmail.com">shrutijangalgi2002@gmail.com</a>	9699803792	Smart voting system using disease Prediction system- face detection, OTP verf, P. Blockchain	Machine Learning	Dr Ravindra Apare
	IT4025	Komal Jagtap	<a href="mailto:jagtapkomal6373@gmail.com">jagtapkomal6373@gmail.com</a>	8767516373			
	IT4044	Krishna Nalle	<a href="mailto:krishnanalle04@gmail.com">krishnanalle04@gmail.com</a>	7720854864			
	IT4004	Maseera Baig	<a href="mailto:maseerabaig_tcoer@tjei.edu.in">maseerabaig_tcoer@tjei.edu.in</a>	9766343218			
PR20232 4_07	IT4017	Nishigandha Dhage	<a href="mailto:dhagenishigandha@gmail.com">dhagenishigandha@gmail.com</a>	9022932073	Emotion driven music recommendation system	Artificial Intelligence	Dr. Vilas Gaikwad
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	IT4020	Rushikesh Garde	<a href="mailto:rushigarde81@gmail.com">rushigarde81@gmail.com</a>	9167164491			
	IT4009	Swayam Bharsakale	<a href="mailto:swayam27072002@gmail.com">swayam27072002@gmail.com</a>	9890327559			
PR20232 4_08	IT4018	Tejas Dube	<a href="mailto:tejasdube2370@gmail.com">tejasdube2370@gmail.com</a>	9067414435	Text Summarization	ML	Dr. Vilas Gaikwad
	IT4063	Tanvi Takawale	<a href="mailto:tanunikitakawale2512@gmail.com">tanunikitakawale2512@gmail.com</a>	9021881779			
	IT4016	Piyush Devgirikar	<a href="mailto:piyushdevgirikar@gmail.com">piyushdevgirikar@gmail.com</a>	8530235935			
	IT4054	Abhishek Saste	<a href="mailto:abhisheksaste60@gmail.com">abhisheksaste60@gmail.com</a>	7517080559			
PR20232 4_09	IT4002	Priya Ambodhare	<a href="mailto:priyaambodhare@gmail.com">priyaambodhare@gmail.com</a>	9011566983	Crypto Price Prediction and Simulation Trading Using Machine Learning	ML	Dr. Vilas Gaikwad
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	IT4040	Eeshan Mishra	<a href="mailto:eeshanmishra02@gmail.com">eeshanmishra02@gmail.com</a>	9890014810			
	IT4005	Chetan Bangar	<a href="mailto:chetanbangar092@gmail.com">chetanbangar092@gmail.com</a>	8010112279			

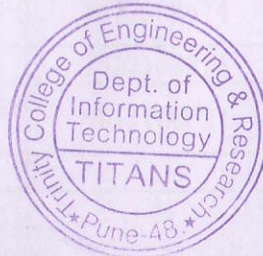


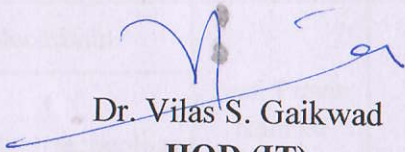
PR20232 4_10	IT4028	Atharva Kamthe	<a href="mailto:atharva@connect18@gmail.com">atharva@connect18@gmail.com</a>	9168144251	Public Ration Distribution using block chain	BLOCKCHAIN	Prof Gajanan Arsalwad	
	IT4031	Dhiraj Khadase	<a href="mailto:dkhadase2@gmail.com">dkhadase2@gmail.com</a>	8482995854				
	IT4049	Kiran Patil	<a href="mailto:kiranpatil4276@gmail.com">kiranpatil4276@gmail.com</a>	6361834916				
	IT4071	Anushka Wable	<a href="mailto:anushka.wable2002@gmail.com">anushka.wable2002@gmail.com</a>	9359935536				
PR20232 4_11	IT 4041	Sandesh More	<a href="mailto:moresandesh66@gmail.com">moresandesh66@gmail.com</a>	7083616949	Analyze and forecast cyber attack detection using machine learning techniques	Machine Learning/AI	Prof Gajanan Arsalwad	
	IT4074	Rushikesh zade	<a href="mailto:rushizade944@gmail.com">rushizade944@gmail.com</a>	9579673995		cyber security		
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PR20232 4_12	IT4006	Girish bansode	<a href="mailto:girishcodes@gmail.com">girishcodes@gmail.com</a>	9819095108	Pixelguard	Web Technology	Dr. Ravindra Apare	
	IT4012	Anant Borse	<a href="mailto:anantborse7@gmail.com">anantborse7@gmail.com</a>	8237875878				
	IT4026	Sourav Jagtap	<a href="mailto:souravhagtap21@gmail.com">souravhagtap21@gmail.com</a>	7709398158				
	IT4033	Suhas Khilari	<a href="mailto:suhaskhilari75@gmail.com">suhaskhilari75@gmail.com</a>	9890388802				
PR20232 4_13	IT4013	Mahesh Chavhan	<a href="mailto:maheshchavhan956@gmail.com">maheshchavhan956@gmail.com</a>	9529882007	Image To Text Recognition System	Web Technology	Prof. Ayesha Sayyad	
	IT4062	Vishal Surya	<a href="mailto:vishalsurya478@gmail.com">vishalsurya478@gmail.com</a>	7410185239				
	IT4038	Subhash Lavand	<a href="mailto:subhashlavand002@gmail.com">subhashlavand002@gmail.com</a>	8010618291				
	IT4034	Chaitanya Kisave	<a href="mailto:Chaitanyakisave@gmail.com">Chaitanyakisave@gmail.com</a>					
PR20232 4_14	IT4072	Shreyash Waghmare	<a href="mailto:waghmaresa15@gmail.com">waghmaresa15@gmail.com</a>	9322707378	Sentimental analysis on product review	Artificial Intelligence	prof Richa Agarwal	
	IT4066	Sanyukta Thadkar	<a href="mailto:sanyuktathadkar78@gmail.com">sanyuktathadkar78@gmail.com</a>	8698448821				
	IT4055	Saad Arif Sayyad	<a href="mailto:saadsayyed777@gmail.com">saadsayyed777@gmail.com</a>	9921356908				
	IT4048	Jyotsna Patil	<a href="mailto:jyotsnapatil9623@gmail.com">jyotsnapatil9623@gmail.com</a>	9420838147				



PR20232 4_15	IT4070	Pranit Vichare	pranivichare136@gmail.com	7620610159	Stress and depression detection via social media using machine learning	Machine Learning	Prof. Ashish Kadam
	IT4069	Ashutosh Todkar	ashutoshtodkar2002@gmail.com	8793998890			
	IT4019	Rushikesh Gadhave	gadhavepushy45@gmail.com	9130807028			
	IT4021	Prasad Ghodake	prasadghodake1202@gmail.com	9370785407			
PR20232 4_17	IT4003	Harshal Badgujar	harshalmb2k2@gmail.com	9373749958	EV charging station management using ai chatbot support	AI	Dr. Vilash Gaikwad
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PR20232 4_18	IT4022	Piyush Jadhao	jadhaopiyush2110@gmail.com	7263830472	Detection of sign Language gestures	ML	Dr. Ravindra Apare
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 Prof. Pravin R. Kamble  
**PROJECT COORDINATOR**



  
 Dr. Vilas S. Gaikwad  
**HOD (IT)**

# CERTIFICATE



This is to certify that the project report entitled  
**“CRYPTO PRICE PREDICTION AND SIMULATION TRADING  
USING MACHINE LEARNING”**

Submitted by

Eeshan Mishra (B190658518)


Arghya Mandal (B190658502)


Chetan Bangar (B190658506)

Priya Ambodhare ((B190658501)

Is a bonafide work carried out by them under the supervision and guidance of **Dr. Vilas Gaikwad** and it is approved for partial fulfillment of the requirement for BE (Information Technology Engineering) course of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information technology Engineering),

This project report has not been earlier submitted to any other institute or university for the award of any degree or diploma.


  
**Dr. Vilas Gaikwad**  
Internal guide  
Department of information technology

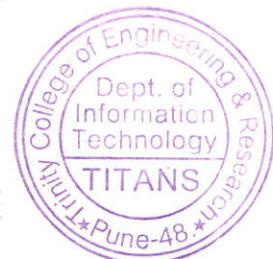
  
**Dr. Vilas Gaikwad**  
Head of Department  
Department of information technology

  
External Examiner

  
Principal

Date 27/05/2024

  
Principal  
K.J.S. Educational Institutes  
(TCOER)  
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Runway Ghat, Pune-411 048

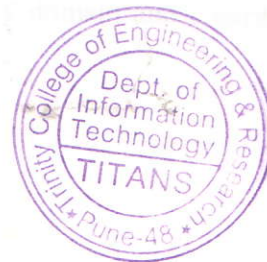


# ABSTRACT

This comprehensive report offers an extensive assessment tailored for cryptocurrency traders, providing them with a robust framework to make well-informed decisions regarding their investment ventures. The primary objective of this platform is to grant users access to a diverse array of cryptocurrencies, seamlessly incorporating a multitude of machine learning algorithms that are dedicated to currency price forecasting, risk analysis, and the assessment of associated volatility. These algorithms are supported by a rich and varied collection of datasets and metrics spanning a wide spectrum of cryptocurrencies.

Furthermore, the research endeavors to address the various challenges that have emerged in the realm of cryptocurrencies, as well as to navigate the path toward forthcoming reforms in the industry. A central focus of this research is to tackle the issues tied to cryptocurrencies, notably the unprecedented price fluctuations that have led to substantial financial losses, eroding trust and confidence among cryptocurrency enthusiasts. In light of these challenges, this report strives to provide a comprehensive approach that encompasses all these pressing issues.

The platform itself has been meticulously designed to allow for the seamless integration of additional features and extensions, enhancing its overall efficiency and versatility within the cryptocurrency domain. This concerted effort aims to empower both seasoned professionals and newcomers in the cryptocurrency trading arena, fostering a more informed and confident community of traders. Ultimately, this initiative seeks to pave the way for a more secure and reliable future for cryptocurrency trading.



1.2 Related Work

Department of IT

**CERTIFICATE**



This is to certify that the project report entitled

**“Image Tampering Detection Using CNN”**

Submitted by

Girish Bansode (B190658507)

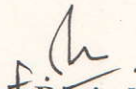
Anant Borse (B190658510)

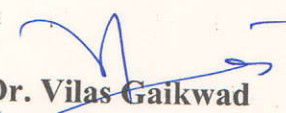
Sourav Jagtap (B190658528)

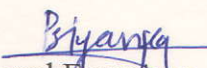
Suhas Khilari (B190658532)

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**Dr. Ravindra Apare**  
Internal guide  
Department of information technology

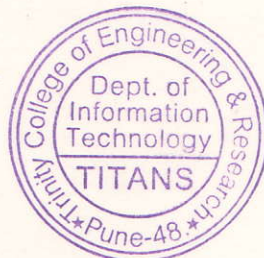
  
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Department of information technology


  
External Examiner

Date

DS.P.D.HAIK

Department of IT - 2023-24

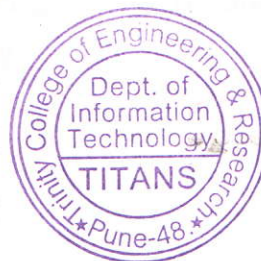


  
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## ABSTRACT

In the digital age, the integrity of images has become a paramount concern, particularly in fields requiring the utmost authenticity, such as media, legal, and social networks. This paper introduces a novel approach to image tampering detection by integrating Convolutional Neural Networks (CNN) with Error Level Analysis (ELA). This combination aims to address the increasingly sophisticated challenges in digital forensics caused by advanced image manipulation techniques. Convolutional Neural Networks are employed for their superior capability in image recognition and feature extraction. They analyze the intricate details and patterns within images, which are crucial for identifying tampering. Complementing this, Error Level Analysis is utilized for its effectiveness in detecting inconsistencies in digital images that result from manipulation. ELA works by analyzing the error levels introduced during image compression, a common trait in tampered images. The synergy between CNN and ELA in our proposed system enhances the detection of subtle alterations, offering a robust solution to image tampering detection. The effectiveness of this integrated approach is demonstrated through rigorous testing, showing marked improvement over existing methods. This research not only contributes significantly to the field of digital forensics but also upholds the integrity of digital media in an era where image manipulation is rampant. Our findings underscore the potential of combining CNN and ELA in creating more reliable and efficient tools for digital image verification and forensics.

Index Terms— Image tampering detection, Convolutional Neural Networks (CNN), Error Level Analysis (ELA), Digital forensics.





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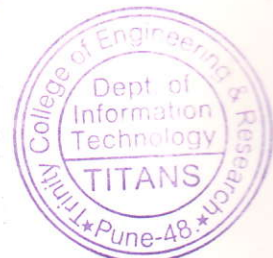
  
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Santay Ghai Pune-411 004



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