

Faculty Achievements/Participations :

1. Mrs Himani Patel, Mrs Dipali Patil, Ms Suvarna Sonone certified that a patent has been granted to the patentee for an invention entitled Wearable Health Monitoring Design from the 1st August 2023 accordance with the provisions of the Patents Act 1970.
2. Dr Latika Desai certified that a patent has been granted to the patentee for an invention entitled Computer based IRIS detection device for biometric authentication from the 1st August 2023 accordance with the provisions of the Patents Act 1970.
3. Mrs Himani Patel have successfully presented the paper entitled "Virtual Mouse using Open CV." on December 2024
4. Mrs Himani Patel have successfully presented the paper entitled "Daily News Analysis Web portal for Government exam" on December 2024



Design Application Details

Application Number: 441133-001
Cbr Number: 223501
Cbr Date: 18/12/2024 17:50:00
Applicant Name: 1. Dr. Chandrakant D. Kokane
2. Kishor Pathak
3. Sonu Khapekar
4. Deepali Patil
5. Sonali Patil
6. Himani Patel
7. Suvarna T. Sonone
8. Yogesh Shepal

Design Application Status

Application Status: Application Under Process (waiting for Technical Examination)

[Back](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under "Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email ID: Design Office, Kolkata : controllerdesign@ipolpat.in; Controller General of Patents, Designs and Trademarks



Himani Patel
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Shreyas Pujari, Subodh Ingle, Mohit Bhat
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ABSTRACT

The "Daily News Analysis Web Portal for Government Exams" is a pioneering platform designed to revolutionize the landscape of exam preparation. This innovative portal seamlessly integrates daily news analysis with exam syllabi, providing aspirants with a holistic understanding of current affairs relevant to their studies. Leveraging personalized content recommendations, the portal optimizes study time by delivering information tailored to individual exam requirements. Real-time updates ensure users stay abreast of the latest developments, enhancing their preparation for current affairs-related questions. Community-driven features foster collaboration, enabling aspirants to share insights and strategies. While offering accessibility and flexibility, the portal faces challenges such as potential information overload and the need for robust data privacy measures. Nevertheless, its commitment to bridging the gap between traditional exam preparation and real-world events positions it as a transformative force in online exam readiness. As the portal evolves, it holds the promise of shaping a new paradigm in government exam preparation, emphasizing not just academic knowledge but also a nuanced understanding of the dynamic socio-political landscape.

KEYWORDS: News analysis, Web portal, Media consumption, Online journalism, User experience, Content curation, Information dissemination, Digital media, Audience engagement, Platform design, Accessibility, Interactivity, Media ethics, Data management, User interface, Mobile application, social media integration, News aggregation, Real-time updates, Audience feedback, Push Notifications, Data Security.

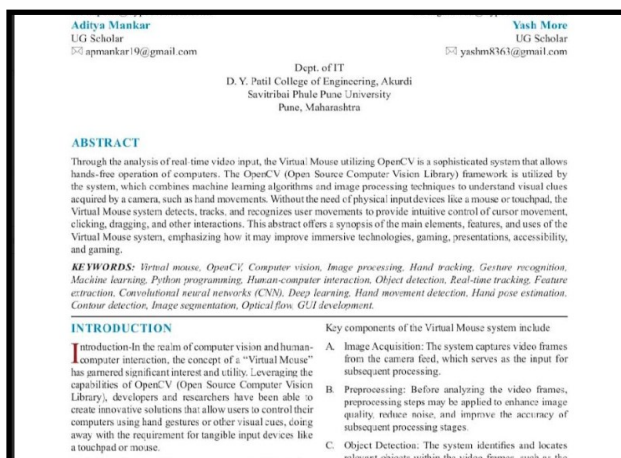
INTRODUCTION

In the pursuit of government job opportunities, being informed about current affairs is considered a necessity. Daily news analysis service is introduced in this project, designed to cater to the needs of government exam aspirants. By delivering concise and relevant news updates, the aim is to equip these candidates with the essential knowledge required to excel in their exams and advance their career prospects.

The Daily News Analysis web portal is dedicated to providing a comprehensive and tailored experience for individuals preparing for government exams. Curating news from credible sources, the platform ensures a

this portal apt is its commitment to in-depth analysis, going beyond mere headline summaries. Users benefit from detailed insights into each news item, gaining a deeper understanding of the broader context, implications, and significance of current events.

Recognizing the diverse nature of government exam syllabi, the platform meticulously aligns its content with exam requirements, emphasizing topics directly related to subjects covered in various government exams. To reinforce learning and assess understanding, interactive quizzes based on the daily news analysis are offered. These quizzes not only provide a valuable opportunity for aspirants to test their knowledge but also help identify



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ABSTRACT

Through the analysis of real-time video input, the Virtual Mouse utilizing OpenCV is a sophisticated system that allows hands-free operation of computers. The OpenCV (Open Source Computer Vision Library) framework is utilized by the system, which combines machine learning algorithms and image processing techniques to understand visual cues acquired by a camera, such as hand movements. Without the need of physical input devices like a mouse or touchpad, the Virtual Mouse system detects, tracks, and recognizes user movements to provide intuitive control of cursor movement, clicking, dragging, and other interactions. This abstract offers a synopsis of the main elements, features, and uses of the Virtual Mouse system, emphasizing how it may improve immersive technologies, gaming, presentations, accessibility, and gaming.

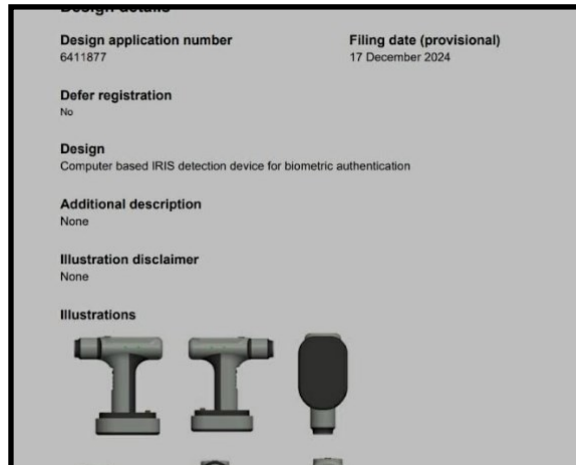
KEYWORDS: Virtual mouse, OpenCV, Computer vision, Image processing, Hand tracking, Gesture recognition, Machine learning, Python programming, Human-computer interaction, Object detection, Real-time tracking, Feature extraction, Convolutional neural networks (CNN), Deep learning, Hand movement detection, Hand pose estimation, Contour detection, Image segmentation, Optical flow, GUI development.

INTRODUCTION

In the realm of computer vision and human-computer interaction, the concept of a "Virtual Mouse" has garnered significant interest and utility. Leveraging the capabilities of OpenCV (Open Source Computer Vision Library), developers and researchers have been able to create innovative solutions that allow users to control their computers using hand gestures or other visual cues, doing away with the requirement for tangible input devices like a touchpad or mouse.

Key components of the Virtual Mouse system include:

- Image Acquisition:** The system captures video frames from the camera feed, which serves as the input for subsequent processing.
- Preprocessing:** Before analyzing the video frames, preprocessing steps may be applied to enhance image quality, reduce noise, and improve the accuracy of subsequent processing stages.
- Object Detection:** The system identifies and locates relevant objects within the video frames, such as the



Design application number
6411877

Filing date (provisional)
17 December 2024


Defer registration
No

Design
Computer based IRIS detection device for biometric authentication

Additional description
None

Illustration disclaimer
None

Illustrations



"Paper Publication"

"Patent Filled"

Name of Faculty Coordinator :

Mr Hiraman Jadhav

Dr Preeti Patil
Head of Department

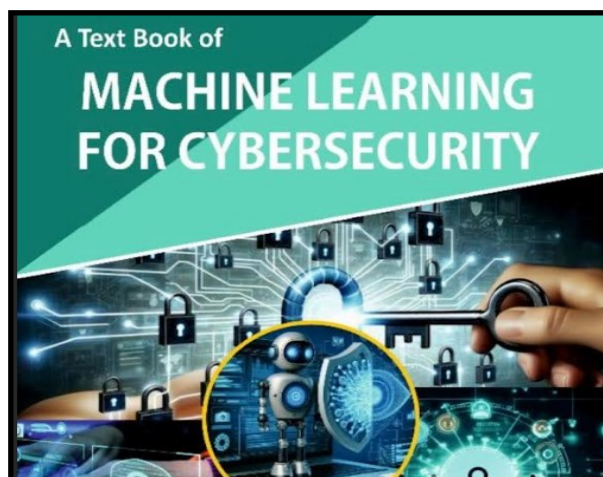
Faculty Achievements/Participations :

5. Mrs. Amita Jajoo have successfully presented the paper entitled “Deep Learning-Driven Modality Image Fusion Enhancing MRI and CT registration and Diagnostics Performance” on December 2024

6. Dr. Latika Desai has book Published on Machine Learning for Cyber Security on December 2024.

7. Dr. Arati Jadhav Patil has participated and successfully completed AICTE Training and Learning ATAL FDP on Cutting-Edge Approaches to Natural Language Processing and Large Language Models at DR. J.J. MAGDUM COLLEGE OF ENGINEERING from 16/12/2024 to 21/12/2024

8. Mrs. Renuka Satyajee Patil, Assistant Professor of D.Y. Patil College of Engineering has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on AI and Quantum Computing: The Future of Intelligent System at BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY from 09/12/2024 to 14/12/2024.



“ATAL FDP”

Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

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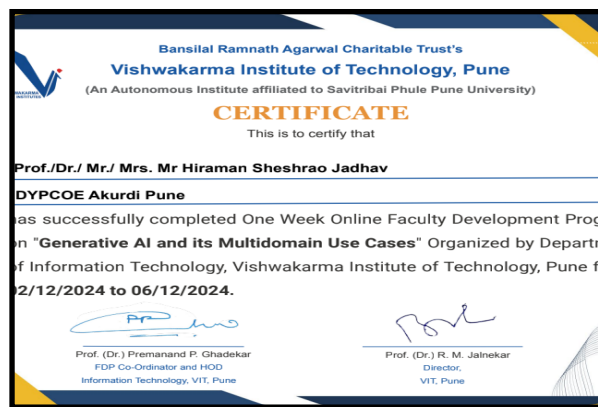
Faculty Achievements/Participations :

9. Mr Hiranman Jadhav, Mrs Priyanka Gupta, Mrs Renuka Patil, Mrs Trupti Firake, Mrs Megha Mehar, Mrs Rajeshwari Kodulkar, Mrs Abhilasha Kore, Mrs Poonam Bhawake has successfully completed One Week Online Faculty Development Program on "Artificial Intelligence and Generative Models" Organized by Department of Information Technology, Vishwakarma Institute of Technology, Pune from 15th Jan 2024 to 19th Jan 2024.

10. Mrs. Renuka Satyajee Patil, Assistant Professor of D.Y. Patil College of Engineering has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on The future of Quantum computing and High-performance computing (HPC) at P.S.V. COLLEGE OF ENGINEERING AND TECHNOLOGY from 23/12/2024 to 28/12/2024.

11. Mrs Himani Patel, Mrs. Parvati Bhadre, Assistant Professor of D Y Patil College of Engineering has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Deep Learning for Vision and Language at THE LNM INSTITUTE OF INFORMATION TECHNOLOGY JAIPUR DEEMED TO BE UNIVERSITY from 09/12/2024 to 14/12/2024.

12. Mrs. Parvati Bhadre, Assistant Professor of D Y Patil College of Engineering has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on AI-Driven Pedagogy: Enhancing Teaching and Learning Experiences at Chanderprahu Jain College of Higher studies from 02/12/2024 to 07/12/2024.



Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

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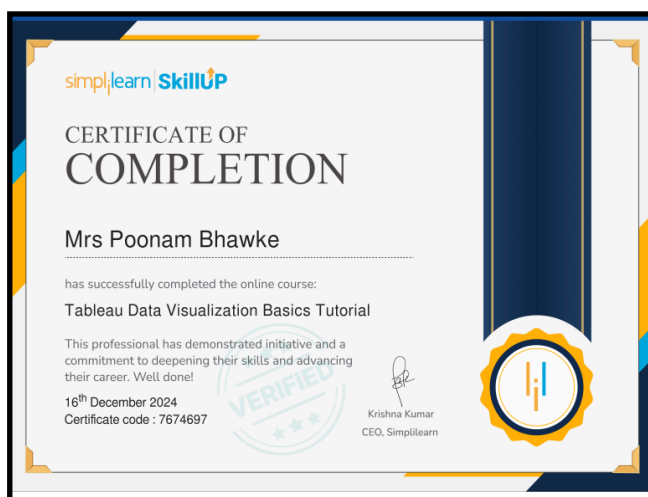
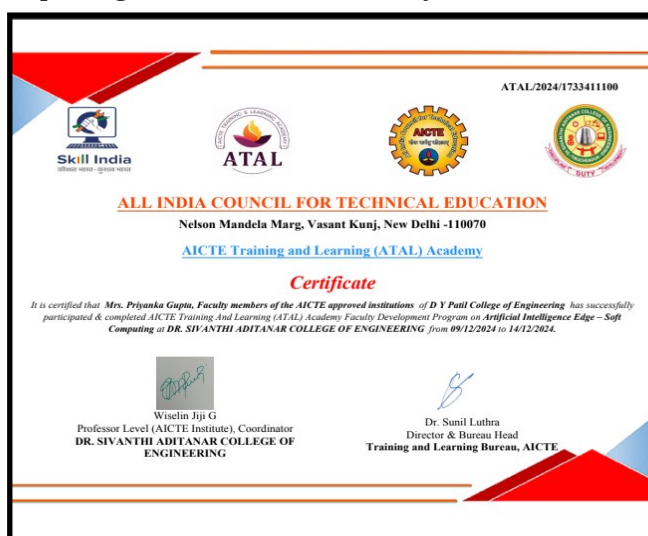
Faculty Achievements/Participations :

13.Mrs. Priyanka Gupta, Faculty members of the AICTE approved institutions of D Y Patil College of Engineering has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Artificial Intelligence Edge – Soft Computing at DR. SIVANTHI ADITANAR COLLEGE OF ENGINEERING from 09/12/2024 to 14/12/2024.

14.Mrs Poonam Bhawke for successfully completing the course Decision Trees using Python on December 9, 2024

15.Mrs Poonam Bhawke for successfully completing the course Tableau Data Visualization Basics Tutorial on December 9, 2024

16.Dr Latika Desai, Mrs Megha Mehar, Mrs Abhilasha Kore, Mrs Rajeshwari Kodulkar for successfully completing the course Basics of Python on December 13, 2024



“FDP & Technical Course Certificates”

Name of Faculty Coordinator :

Mr Hiranman Jadhav

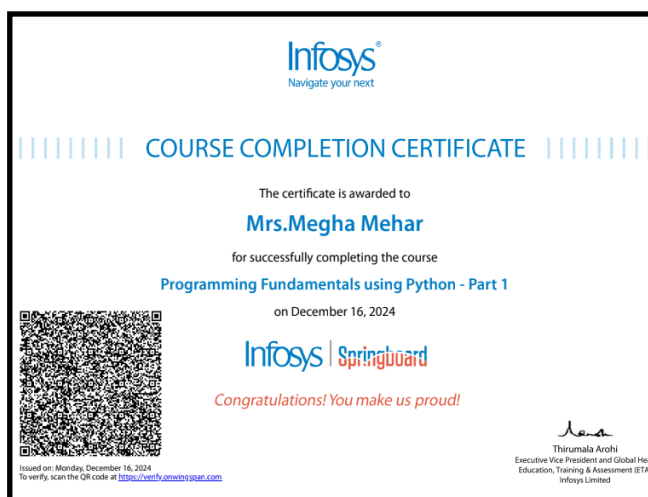
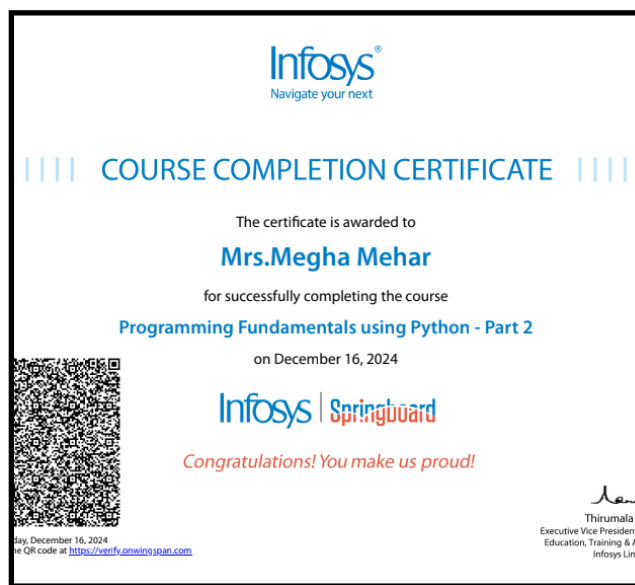
Dr Preeti Patil
Head of Department

Faculty Achievements/Participations :

17.Mrs. Priyanka Gupta, Assistant Professor of DY Patil College of Engineering,Pune has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Deep Learning and It`s Applications at Shah & Anchor Kutchhi Engineering College from 16/12/2024 to 21/12/2024.

18.Dr Latika Desai, Mrs Abhilasha Kore,Mrs Rajeshwari Kodulkar Mrs.Megha Mehar for successfully completing the course Programming Fundamentals using Python - Part 2 on December 16, 2024

19.Dr Latika Desai, Mrs Abhilasha Kore,Mrs Rajeshwari Kodulkar Mrs.Megha Mehar for successfully completing the course Programming Fundamentals using Python - Part 1 on December 16, 2024



“FDP & Technical Course Certificates”

Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

Faculty Achievements/Participations :

20. Mrs Abhilasha Kore for successfully completing the course Programming Fundamentals using Python - Science Graduates - Foundation Program on December 16, 2024
21. Dr Arati Jadhav Patil for successfully completing the course Principles of Generative AI Certification on November 29, 2024 (Certificate received in December)
22. Dr Arati Jadhav Patil for successfully completing the course Generative models for developers on November 29, 2024 (Certificate received in December)
23. Dr Latika Desai for Participating in the World record for largest attendance in a Virtual Meditation class on World Meditation Day with Habuild on December 2024.



"FDP & Technical Course Certificates"

Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

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24. Mrs Krutika Bang for successfully clearing the TalentNext certification assessment and is recognized as a mentor for Project Based Learning in Data Science with Python on 30th December 2024.

25. Dr Preeti Patil has Successfully Completed life skill course as a part of ongoing professional development in education on 27th December 2024.

26. Dr Preeti Patil has Successfully Completed Active Teaching Strategies course as a part of ongoing professional development in education on 27th December 2024.

27. Mrs Priyanka Gupta has successfully completed and Received a passing grade in Introduction to Cloud on December 2024.

25. Mr Hiranman Jadhav, Mrs Abhilasha Kore Certified that a patent has been filled to the patentee for an invention entitled Wearable Health Monitoring Design from the 1st August 2023 accordance with the provisions of the Patents Act 1970.



Name	Nationality	Address with Pin code
Dr.Dhanraj Dhotre	An Indian Citizen	Computer Sci.&Engg. Department, School of Computing, MIT Art Design and Technology University, Loni Kalbhor , Tq- Haveli, Dist-Pune, Maharashtra, India Pin-412201
Dipali Mate	An Indian Citizen	Computer Sci.& Engg. Department, Vishwakarma Institute of Technology, Pune
Mrs.Pallavi Ravikant Shingade	An Indian Citizen	D Y Patil College of Engineering, Akurdi, Pune
Ajay Chhajed	An Indian Citizen	Computer Sci.& Engg. Department, Vishwakarma Institute of Technology, Pune
Mrs. Rasika Vishal Wattamwar	An Indian Citizen	D Y Patil College of Engineering, Akurdi, Pune
Mrs Abhilasha Sandeep Kore	An Indian Citizen	D Y patil College of Engineering, Akurdi, Pune
Mr Hiranman Jadhav	An Indian Citizen	D Y Patil College of Engineering, Akurdi, Pune
Ravindra Ramesh Agrawal	An Indian Citizen	Bharati Vidyapeeth Deemed To Be University Sector 3, Kharghar, Navi Mumbai
Vijay U. Rathod	An Indian Citizen	Computer Sci.& Engg. Department, (Artificial Intelligence & Machine Learning), BRACITs, Vishwakarma Institute of Technology, Pune

2. INVENTOR(S)		
Name	Nationality	Address with Pin code
Dr.Dhanraj Dhotre	An Indian Citizen	Computer Sci.&Engg. Department, School of



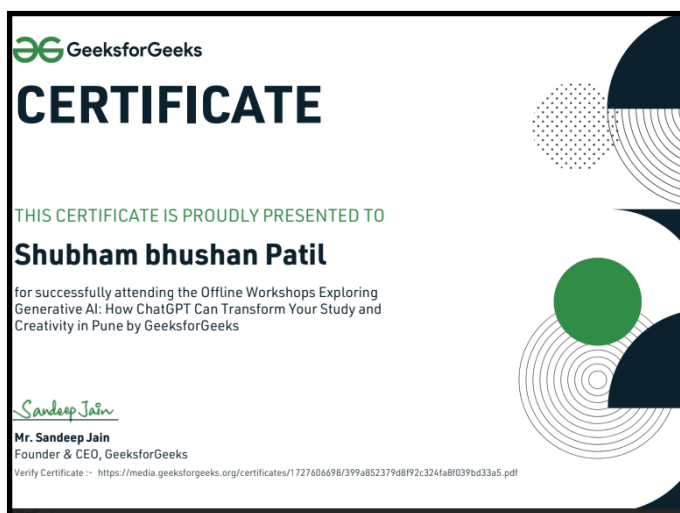
Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

Student Achievements/Participations :

- 1.Mr Jagdish Raut,Route Masters26 the winner of Smart India Hackthon on December 2024.
- 2.Mr Jagdish Aher ,Route Masters26 the winner of Smart India Hackthon on December 2024.
- 3.Mr.Shubham bhushan Patil for successfully attending the Offline Workshops Exploring Generative AI: How ChatGPT Can Transform Your Study and Creativity in Pune by Geeksfor-Geeks on December 2024.
- 4.Ajit Shinde from DY Patil College of Engineering DPCE, Akurdi, Maharashtra has participated in Tata Imagination Challenge 2024 Student Track organised by Tata group on December 2024.



Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

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Student Achievements/Participations :

5.Mr Shubham Patil has successfully completed 10 weeks Android developer virtual Internship on December 2024.



Name of Faculty Coordinator :

Mr Hiraman Jadhav

Dr Preeti Patil
Head of Department