Dr. Agnivesh Pandey

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Education

- **Ph.D. in Information Technology**, Guru Ghasidas Central University, Bilaspur (C.G.), 2025
  Title of Thesis: **"A Novel Object Detection and Tracking Framework for Aerial Images Using Visual Features and Deep Learning Techniques"**

- **M.Tech in Information Security**, MANIT Bhopal, 2008

- **B.E. in Information Technology**, RGPV Bhopal, 2006

Research Interests

- Object detection and tracking in aerial images

- Deep learning applications in computer vision

- Image processing and pattern recognition

- Information security and IoT

Research Publications

1. Agnivesh Pandey, Rohit Raja, "Enhanced Graph Convolutional Remora Dual-Attentive Network-Based Object Detection and Tracking Framework for Aerial Images", *Multimedia Tools and Applications*, Springer, pp. 1–33, 2025.

2. Agnivesh Pandey, Rohit Raja, "Smart Skyways: Aerial Traffic Control Using Artificial Intelligence Algorithms", *Indian Journal of Science and Technology*, Vol. 17, No. 31, pp. 3272–3280, 2024.

3. Agnivesh Pandey et al., "Bio-Inspired Object Detection and Tracking in Aerial Images: Harnessing Northern Goshawk Optimization", *IEEE Access*, 2024.

4. Agnivesh Pandey, "Gait Biometric Based Recognition of Human in Silhouette Images", *IJTIMES*, Vol. 4, No. 5, pp. 250–257, 2018.

5. Agnivesh Pandey et al., "An Effective Method for Detecting Crop Disease Using Artificial Neural Network and Image Processing".

6. Md Rashid Mahmood, Harpreet Kaur, Agnivesh Pandey, "Temporal Fractional Derivative for Background Extraction".

7. Abhijeet Agrawal et al., including Agnivesh Pandey, "Square Split Ring Unit Cell Metamaterial Structure for Wireless Applications of L, S and C Band".

8. Agnivesh Pandey et al., "Semantic Segmentation of Iris by Deep Learning Techniques".

9. Md Rashid Mahmood, Agnivesh Pandey, "An Artificial Intelligence-Based Framework and Methodology for Information Security", *Chhattisgarh Journal of Science and Technology*, Vol. 17, No. 1, pp. 33–40, 2020.

10. Agnivesh Pandey, "E-Content Development and Delivery Using ICT for Higher Education", *IJTIMES*, Vol. 4, No. 3, pp. 79–82, 2018.

11. Srujan Panthula et al., including Agnivesh Pandey, "Navigation of Empty Parking Slots Using Image Processing", *I-Manager's Journal of Pattern Recognition*, Vol. 10, No. 1, 2023.

12. Agnivesh Pandey, Rohit Raja, "Segmentation for Aerial Image with Deep Learning Method", *ESMSJ*, Vol. 12, No. 2, p. 45, 2023.

13. Agnivesh Pandey, "A Review on Telecom Revolution by Reliance in India: Effect of Jio on Consumers and Competitors", *IJTIMES*, Vol. 4, No. 7, pp. 1394–1398, 2018.

14. Agnivesh Pandey et al., "Web Testing and Security Audit of Web Application", *Chhattisgarh Journal of Science and Technology*, Vol. 18, No. 2, pp. 125–127, 2021.

15. Aditi Sharma et al., including Agnivesh Pandey, "Structural and Raman Study of NiFe2O4 Nanoparticles Synthesized by Chemical Auto Combustion Method".

16. Dwijen Rudrapal, Smita Das, Agnivesh Pandey, Nirmalya Kar, "Automated Load Shedding Period Control System", *International Journal on Computer Science and Engineering*, Vol. 3, No. 5, pp. 1764–1772, 2011.

17. Swapan Debbarma, Agnivesh Pandey, "Vulnerable Problems in LAN and Its Solutions", *JETIR*, Vol. 6, Issue 6, pp. 634–637, June 2019.

18. Swapan Debbarma, Agnivesh Pandey, "Gestures in Scheming Cursors for Camera and Projector in Touch Screens", *JETIR*, Vol. 6, Issue 6, pp. 638–643, June 2019.

19. Swapan Debbarma, Agnivesh Pandey, "Stemmer in Kokborok Language", *JETIR*, Vol. 6, Issue 6, pp. 644–648, June 2019.

20. Swapan Debbarma, Agnivesh Pandey, "Prophecy in IoT by Cloud Computing", *JETIR*, Vol. 6, Issue 6, pp. 649–654, June 2019.

21. Swapan Debbarma, Agnivesh Pandey, "Security Problems in VPN and Solutions", *JETIR*, Vol. 6, Issue 6, pp. 655–657, June 2019.

22. Swapan Debbarma, Agnivesh Pandey, "A Survey on Voice Emotion Recognition Method", *JETIR*, Vol. 6, Issue 6, pp. 658–662, June 2019.

23. Agnivesh Pandey, "Leukemia Blood Cancer Detection Using Image Processing in MATLAB", *IJTIMES*, Vol. 4, Issue 5, pp. 650–656, May 2018.