

Shatrudhan Chaudhary (Satish)

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PROFILE

Final-year B.Tech student in Computer Science Engineering with applied research experience in AI-based medical image analysis. Skilled in CNN/U-Net architectures and ensemble deep learning, with published work in disease classification from endoscopy and pneumonia detection from CXR. Now seeking to contribute to innovation in cancer imaging and real-time radiotherapy systems, focusing on segmentation, motion tracking, and explainable AI in clinical contexts.

EDUCATION

- **Jain University School of Engineering and Technology** | B.Tech. in Computer Science Engineering
 - Bangalore, Karnataka | 2021 – 2025 |
 - CGPA: 8.5/10
- **DAV Sushil Kedia Viswa Bharti School** – Class XII (Kathmandu, Nepal)
 - percentage: 89.75%
- **G.S Niketan Higher Secondary School** – Class X (Hetauda, Nepal)
 - percentage: 87.5 %

SCHOLARSHIPS

- **Study in India (SII) Scholarship:** Awarded by the Government of India (**Ministry of Education, 2021-2025**) for meritorious international students.

RESEARCH EXPERIENCE

- **Deep Neural Networks for Disease Classification from Endoscopic Imaging** (Published)
Presented at IEEE ICERCS'24, Karpagam Academy of Higher Education, India (Dec 2024). Developed a CNN and U-Net based model achieving 98.8% classification accuracy for gastrointestinal diseases using endoscopic images.
- **Co-author – Ensemble Deep Learning for Pneumonia Detection** (Published)
IEEE ICDSBS 2025. Developed an ensemble model using DenseNet, MobileNet, and EfficientNet to classify pneumonia from chest X-rays. Achieved 99.24% accuracy using transfer learning and model fusion strategies.

RESEARCH INTERESTS

- Deep Learning for Cancer Imaging (CT, MRI, CBCT)
- AI-Enhanced Radiotherapy Planning and Monitoring
- Medical Image Segmentation and Motion Tracking
- Multimodal Learning and Domain Adaptation
- Explainable AI in Oncology
- 4D Imaging & Real-Time Inference (e.g., Jetson, TFLite)

TECHNICAL SKILLS

- **Core:** Python, TensorFlow, Keras, PyTorch, OpenCV
- **Medical AI:** CNNs, U-Net, Transfer Learning, Grad-CAM
- **Edge Deployment:** TensorFlow Lite, ONNX, Jetson Nano
- **Research Tools:** Jupyter Notebook, Google Colab, LaTeX, Git
- **Emerging:** Basic understanding of 4D imaging, IGRT systems, Cone Beam CT, multileaf collimator tracking

PROJECTS

- **Body Pose Recognition** | Mar 2024 | [GitHub](#)
Pose detection pipeline using TensorFlow & OpenCV. Concepts transferable to field activity tracking for agricultural labor safety.
- **Global Terrorism Dataset Analysis** | [GitHub](#)
Investigated global terrorism patterns through comprehensive exploratory data analysis (EDA), uncovering key trends and insights for strategic decision-making.

PUBLICATIONS

- Chaudhary, S. et al. (2024). *Deep Neural Networks for Disease Classification from Endoscopic Imaging*. IEEE ICERCS'24.
DOI: [10.1109/ICERCS63125.2024.10895860](https://doi.org/10.1109/ICERCS63125.2024.10895860)
- Chaudhary, S. et al. (2025). *Ensemble Deep Learning Approach for Pneumonia Detection Using DenseNet, MobileNet, and EfficientNet with Transfer Learning*. IEEE ICDSBS 2025.
DOI: [10.1109/ICDSBS63635.2025.11031996](https://doi.org/10.1109/ICDSBS63635.2025.11031996)

ENGLISH LANGUAGE PROFICIENCY

PTE Academic Score: Overall 69 (Listening: 68, Reading: 69, Speaking: 64, Writing: 70)

REFERENCES

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Jain University
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