

Lokesh Nandanwar

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Education

- **M.S. (Research) in Computer Vision and Image Processing** **2019 - 2021**
Univeristy of Malaya, Kuala Lumpur, Malaysia *Current 3.7/4.0*
- **B.Tech in Information Technology** **2015 - 2019**
National Institute of Technology (NIT) Durgapur, Durgapur, India *First Class (Distinction) 8.32/10*
- **12th Maharashtra State Board, Electronics Group** **2015**
Shivaji Science College, Nagpur, India *88.31 %*
- **10th Maharashtra State Board** **2013**
Gayatri High School, Nagpur, India *94.55 %*

Research Experience

- **CVPR Unit, Indian Statistical Institute** **Kolkata, India**
Project Linked Person *Since November 2020*
Working on Scene Text detection in Blur images, Multilingual Scene Text Style Transfer, Text style generations and exploring GANs, Auto-Encoder, etc
- **Multimedia Lab, University of Malaya** **Kuala Lumpur, Malaysia**
Graduate Research Assistant *November 2019 - November 2020*
Worked on 3D Scene Text Detection, Forgery identification, Social Media image classification, Drone imagery tree counting, etc and other real world Computer Vision, Deep learning and Image Processing problems.
- **Medical Image analysis Lab, NIT Durgapur** **Durgapur, India**
Undergraduate Research Assistant *June 2018 - October 2019*
Worked on Machine Learning and Deep Learning in Medical Imaging for Automation of Disease Detection, Classification, and Segmentation also published some of my research findings

Industrial Experience

- **HSBC Technology India** **Pune, India**
Software Engineer Trainee *June 2019 - November 2019*
Worked in a **Commercial Banking**, Digital Division projects
- **Google Summer of Code (GSoC 2018)** **LMU Munich, Germany (Remote)**
Student Developer, Software and Computational Systems Lab *April 2018 - August 2018*
Worked on development of UI for generating Automatic reports along with building testing framework of **CPAchecker (Open Source Tool for configurable software verification)**
- **Satvix Informatics Pvt. Ltd.** **Pune, India**
Software Development Internship *May 2017 - November 2017*
Worked on Progressive Web Application in Mobile platforms in Ionic framework with Angular and Ionic 2. Designed and developed QwikSurveys App (**Offline Survey Application**) using QwikSurveys API. Released the first version of the app.

Teaching Experience

- **Short Term Course: Machine Learning for Image and Video Recognition** **NIT Durgapur, India**
Lab Assistant *January 2019*
Demonstrated and tutored 50+ people in Short Term Course sponsored by TEQIP-III in collaboration with NIT Durgapur in the field of Machine learning and Image Processing

- **Robocell, Center for Cognitive Activities, NIT Durgapur** **Durgapur, India**
Senior Crew Member *June 2016 - June 2019*
 Organised 5 workshop in span of 3 years for 150+ undergrads in the field of Home Automation using Android and Arduino, Bluetooth, etc. Built a home automation system and an Android app to control appliances inside home remotely, and an automatic cut-off of electricity when no human presence is detected using PIR sensor

Awards and Recognition

- **AcTiVComp Challenge - 25th ICPR 2020, Milan, Italy**
3rd in Competition on Superimposed Text Detection and Recognition in Arabic News Video Frames, Multilingual Text Segmentation in Images and Videos **October 2020**
- *Speaker, Catalyst Track, Data Fest 2020, fest.ai*
- **China Students Service Outsourcing Innovation and Entrepreneurship Competition** **May 2019**
Belt and Road Award, SegWare: Brain Image Segmentation and Visualization Software
- **Winner of Smart India Hackathon 2019** **March 2019**
Won 1lakh INR prize, Brain Image Segmentation and Visualization with Machine Learning
- **Awards for Tech Events in National level College Fests**
1st in Martian'16, Runner-up in Freemex'17, 2nd Runner-up in Hot Pursuit'15, NIT Durgapur, India
- **International Mathematics Olympiad** **February 2014**
Gold Medal (Division level)
- **Elementary and Intermediate Drawing Examinations Maharashtra State**
Secured "A" Grade

Journal Proceedings

- **Forged Text Detection in Video, Scene and Document Images:** Lokesh Nandanwar*, Shivakumara Palaiahnakote, Prabir Mondal, K. S. Raghunandan, Umapada Pal, Tong Lu, Daniel Lopresti **IET Image Processing 2021**
- **DCT-Phase Statistics for Forged IMEI Numbers and Air Ticket Detection :** Lokesh Nandanwar*, Palaiahnakote Shivakumara, Swati Kanchan, V Basavaraja, DS Guru, Umapada Pal, Tong Lu, Michael Blumenstein, **Expert Systems with Applications 2020**
- **A New Method For Detecting Altered Text In Document Images:** Lokesh Nandanwar*, Shivakumara Palaiahnakote, Umapada Pal, Tong Lu, Daniel Lopresti, Bhagesh Seraogi, Bidyut B. Chaudhuri **International Journal of Pattern Recognition and Artificial Intelligence 2020**
- **A New Hybrid Method For Caption And Scene Text Classification In Action Video Images:** Lokesh Nandanwar*, Shivakumara Palaiahnakote, Umapada Pal, Tong Lu, Michael Blumenstein **International Journal of Pattern Recognition and Artificial Intelligence 2020**

Conference Proceedings

- **Chebyshev-Harmonic-Fourier-Moments and Deep CNNs for Detecting Forged Handwriting :** Lokesh Nandanwar*, Shivakumara Palaiahnakote*, Kundu Sayani, Umapada Pal, Tong Lu, Daniel Lopresti, **25th ICPR 2020**
- **Local Gradient Difference Based Mass Features for Classification of 2D-3D Natural Scene Text Images :** Lokesh Nandanwar*, Shivakumara Palaiahnakote*, Raghavendra Ramachandra, Tong Lu, Umapada Pal, Daniel Lopresti, Nor Badrul Anuar, **25th ICPR 2020**
- **A New Common Points Detection Method for Classification of 2D and 3D Texts in Video/Scene Images :** Lokesh Nandanwar*, Palaiahnakote Shivakumara, Ahlad Kumar, Tong Lu, Umapada Pal, Daniel Lopresti, **14th IAPR DAS 2020**
- **A New DCT-FFT Fusion based Method for Caption and Scene Text Classification in Action Video Images:** Lokesh Nandanwar*, Shivakumara Palaiahnakote, Suvojit Manna, Umapada Pal, Tong Lu and Michael Blumenstein, **ICPRAI 2020**

- **A New Method For Detecting Altered Text in Document Images** : Lokesh Nandanwar*, Shivakumara Palaiahnakote, Umapada Pal, Tong Lu, Daniel Lopresti, Bhagesh Seraogi and Bidyut. B. Chaudhuri, **ICPRAI 2020**
- **Brain Tumor Classification Using ResNet-101 Based Squeeze and Excitation Deep Neural Network** : Palash Ghosal, Lokesh Nandanwar*, Swati Kanchan, Ashok Bhadra, Jayasree Chakraborty, Debashis Nandi, **ICACCP 2019**

Grants and Scholarships

- **University of Malaya Financial Aid** **2020**
Full funding for Tuition fees for Masters Degree Course
- **China Students Service Outsourcing Innovation and Entrepreneurship Competition** **May 2019**
10,000¥ (Chinese Yuan) for Attending and Visiting China

Technical and Personal skills

- **Programming Languages and Frameworks:** C, C++, Python, Pytorch, Keras, Tensorflow, Open CV, Git, Streamlit, FastAPI, Fast.ai, HTML, CSS, JavaScript, Angular/AngularJS,
- **Industry and Software Skills:** Deep Learning, Machine Learning, Computer vision, Image Processing, Mobile App Development, Full Stack Web Development, Python Applications development. Proficient with MS office products like Powerpoint, excel sheets, word, etc.
- **Personal Skills:** Creative person, Eager to learn, experiment and build things, Easily adaptable to environment and work culture. Work well in a team, good in managing people, optimistic attitude, and diligent person.

Extra-curricular activities

- Volunteer for translation of Russian Deep learning Course in English language (Videos and Notebooks), conducted by Catalyst Team, Deep Learning School, Tinkoff and MIPT Russia
- Executive Fest coordinator of AAROHAN, The Annual Techno-management fest of NIT Durgapur
- Participated and won in various drawing and quiz competitions.
- Actively participate in open source events and contribute to open source softwares, projects

References

- **Dr. SHIVAKUMARA PALAIAHNAKOTE**
Associate Professor, Faculty of Computer Science & Information Technology,
University of Malaya (UM), Malaysia
Email: shiva@um.edu.my
- **Prof. UMAPADA PAL**
Professor and Head, Computer Vision and Pattern Recognition Unit,
Indian Statistical Institute (ISI), Kolkata, India
Email: umapada@isical.ac.in
- **Prof. MOHAN KANKANHALLI**
Dean, School of Computing, Provost's Chair Professor of Computer Science,
National University of Singapore (NUS), Singapore
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