Lokesh Nandanwar

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Deep Learning Research Enthusiast with a focus on Computer Vision, Image Processing and Medical Imaging. Passionate about entrepreneurship and building user-friendly, cost-effective medical devices and healthcare systems which can be affordable and accessible to all.

Education

M.S. (Research) in Computer Vision and Image Processing   **2019 - Present**
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

Multimedia Lab, University of Malaya   **Kuala Lumpur, Malaysia**
Graduate Research Assistant   *Since November 2019*

Working 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

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, Blutooth controlled car, RF-TF wireless devices, etc. Built a home automation system using Arduino and Bluetooth, and an Android app to control appliances inside home remotely. Also worked on automatic cut-off of electricity when no human presence is detected using PIR sensor

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. Designed and developed QwikSurveys App **(Offline Survey Application)** using QwikSurveys API. Released the first version of the app in Android and IOS platforms. Worked in progressive web application in Angular and Ionic 2.

Journal Proceedings

- **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**

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**

Awards and Recognition

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

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**
5,000 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
Email: mohan@comp.nus.edu.sg