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| **Jitender Kumar Maurya**  **Research Analyst**  **Contact Information**  **Permanent Address:** F-Block, Mohan Nagar, opp. BSF camp  Haryana -122102  **Current Address:** HSR layout Bangalore  **Phone No:** +91-8368258902  **Email:** jkmaurya161@gmail.com  **Linkedin**: <https://in.linkedin.com/in/jitender-maurya-113ba073>  **Google scholar:** <https://scholar.google.com/citati>  ons?user=bITe9IgAAAAJ&hl=en  **Personal Information**  **DOB:** March 1st, 1992  **Strengths**   * Hardworking * Technically sound * Flexible * Problem solving * Always Learning   **Achievements**   * 1st position in “power puller” event in Robotics Day 2011 at ITM University Gurgaon. * 2nd position in “Inter-House football Tournament 2011-2012” held in GJUS&T,Hisar. * Qualified Gate 2013 with 99.75%   **Extracurricular Activities/Hobbies**   * Playing Chess * Listening songs * Table Tennis * Travelling | ***Curriculum Vitae***  **Summary**  Dynamic and results-driven Deep Learning and Computer Vision Researcher with 9+ years of experience in designing and implementing cutting-edge computer vision algorithms. Adept at leading research projects, publishing in top-tier conferences, and securing patents. Proven track record in driving innovation and contributing to the advancement of the field. Adept at collaborating with cross-functional teams to integrate solutions into real-world applications. Successfully led and managed multidisciplinary teams of researchers in developing state-of-the-art computer vision algorithms. Demonstrated strong project management skills from conceptualization to implementation. Keen to work on Challenging problem.  **Work Experience**  **Duration Position Held Organization**   * Dec 2019 to Present. Research Analyst Toshiba Software India Pvt. Ltd * July 2015 to Dec 2019 Researcher & Developer TCS Research & Innovation Labs   **Education**  **Duration Degree Institute CGPA**   * 2013-2015 M.Tech Indian Institute of Technology, Kharagpur 8.65   (**Visual information Processing and Embedded system**)   * 2009-2013 B.Tech Guru Jambheshwar University of Science & Technology 7.18   (**Electronics and Communication Engineering**)  **Skill/Competencies**   * **Language** Python, C, C++, MATLAB * **Tool** OpenCV, PyTorch, NumPy, scikit-image, mlflow, Visual Studio * **Expertise** Computer Vision, Deep Learning, Machine Learning, ChatGPT3.5,   Data Structure, Digital Image Processing, Pattern Recognition   * **Online Courses** Over 23 online course certificates on Machine learning and computer   Vision. (<https://in.linkedin.com/in/jitender-maurya-113ba073>)    **Projects**   * **Robust Image Classification in Presence of Noisy Annotations**   Developed a robust image classifier in presence of highly noisy annotations in the dataset. It will reduce the cost of annotation with the expert & in result, robust model could be developed with less reliable dataset. Achieved an accuracy improvement of 15%.   * **Model Compression**   Developed a compressed image classifier and object detector with similar accuracy as the original models using structured pruning. Achieved compactness of 55%.   * **Domain Adaptation on Object Detection (Published in WACV 2023)**   Developed a novel Domain Adaptation method to train unlabeled dataset with high accuracy and achieved state-of-the-art results.   * **Real Time Hand Segmentation on Frugal HMD for gestural interface**   Developed a filter for hand segmentation on device in real time, even for a skin like  background (**Published in ICIP 2018**)   * **Natural Zoom Gesture based Interaction on Frugal Devices**   Worked on development of Natural Zoom gesture-based interaction on android, Google  Cardboard.   * **Hand Gesture Based Region Marking for Tele-support using Wearables.**   Worked on development on Gesture based Region marking on android, Google Cardboard  (**Published in CVPR 2017**)   * **Industrial inspection using Augmented reality.**   Worked on development of inspection application on Android, Google cardboard, Google  glass   * **3D object manipulation using Gesture.**   Worked on importing 3D file in android app and its manipulation with the help of gesture.   * **Predictive analysis from Thermal video.**   Worked on a system design, for predictive Maintenance of Machine based on the Thermal  video using FLIR. So that system gives indication that the Machine needs maintenance.   * **Vibration Frequency Detection and Object Tracking in Video**   Worked on detecting vibration frequency of an Object from the Optical video captured using  Webcam at 30fps. Tracked the motion of object.   * **Optical Character Recognition of Hindi Language (Under the Guidance of Dr.**   **Jayanta Mukhopadhyay & Dr. Ritwik Layek)**  Developed software to recognize Hindi printed text using GOCR (English OCR). Worked on  header detection of word, skew correction of word, segmentation of character and trained  system |
|  | **Publications**   * **Jitender Maurya**, Keyur R. Ranipa, Osamu Yamaguchi, Tomoyuki Shibata, and Daisuke Kobayashi, **“**[**Domain Adaptation Using Self-Training With Mixup for One-Stage Object Detection**](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=bITe9IgAAAAJ&sortby=pubdate&citation_for_view=bITe9IgAAAAJ:eQOLeE2rZwMC)**”, I**n **WACV 2023,** Hawaii, USA * Srinidhi Hegde, **Jitender Maurya**, Aniruddha Kalkar, and Ramya Hebbalaguppe, “**SmartOverlays: A Visual Saliency Driven Label Placement for Intelligent Human-Computer Interfaces**”,In **WACV 2020** Snowmass Village, CO, USA * **Jitender Maurya**, Ramya Hebbalaguppe, and Puneet Gupta, **“Real Time Hand Segmentation on Frugal headmounted device for gestural interface**” In **ICIP 2018** Athens, Greece * Archie Gupta, Shreyash Mohatta, **Jitender Maurya**, Ramakrishna Perla, Ramya Hebbalaguppe, and Ehtesham Hassan, “**Hand Gesture Based Region Marking for Tele-presence using Wearables**” In **CVPR 2017**, Honolulu, Hawaii, USA * Arindam Saha, Jitender Maurya, Sushovan Mukherjee, and Ranjan Dasgupta, “**ThermaFlowScan: Automatic Thermal Flow Analysis of Machines from Infrared Video**” In **VISAPP 2017**, Porto, Portugal   **Patents**   * “**Robust Image Classification in Presence of Noisy Annotations**” Under Process * **“Learning apparatus, learning method, object detection apparatus, object detection method, learning support system and learning support method”** US Patent number US20230132770A1 [2023] * **“System and Methods for performing Hand Segmentation”**, US Patent number 11069067. [2021] * **“** [**Hand detection in first person view**](https://patents.google.com/patent/US11126835B2/en)**”** US Patent number 11126835 [2021] * **“Telepresence Framework for Region of Interest Marking using Headmounted Devices”**, US Patent number 10831360. [2020]   **DECLARATION:**  **I hereby declare that all the above information is true and correct to the best of my**  **knowledge**  **Place: Bangalore**  **Date: 9 September 2024**  **Jitender Maurya** |