

CONTACT INFORMATION	Shivpuri, Ramchandrapur. Biharsharif, Nalanda Bihar, India. Pin-803101.	(+91)-8094018427 kumar.amandeep015@gmail.com Welcome to my Homepage
RESEARCH INTERESTS	Computer Vision, Deep Learning, Machine Learning, Pattern Recognition, Image Processing.	
PRESENT POSITION	Pursuing Bachelor of Technology(B.Tech)(4 rd Year).	
EDUCATION	West Bengal University of Technology, Kolkata (India) 2018 University: West Bengal University of Technology - Information and Technology(IT) - YGPA: 8.36/10 (till 6 th Semester) Sarvodaya Senior Secondary school, Kota, Rajasthan (India) 2017 - Central Board of Secondary Education(12 th Standard) - Aggregate: 82.2% Alphonsa School, Siliguri, West Bengal (India) 2015 - Indian Certificate of Secondary Education (10 th Standard) - Aggregate: 90.6%	
CONFERENCE PAPERS	<ol style="list-style-type: none"> 1. Amandeep Kumar*, Shuvojit Ghose*, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal, “UDBNET: Unsupervised Document Binarization Network via Adversarial Game”, <i>International Conference on Pattern Recognition (ICPR)</i>, Milan, 2020. [Github] [arXiv] 2. Ayan Kumar Bhunia, Shuvojit Ghose, Amandeep Kumar, Pinaki Nath Chowdhury, Aneeshan Sain, Yi-Zhe Song , “MetaHTR: Towards Writer-Adaptive Handwritten Text Recognition”, <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2021. [arXiv] 3. S. P. Sharan, Sowmya Aitha, Amandeep Kumar, Abhishek Trivedi, Aaron Augustine, Ravi Kiran Sarvadevabhatla, “PALMIRA: PALm Leaf ManuscrIpt Region Annotator A Deep Deformable Network for Instance Segmentation of Dense and Uneven Layouts in Handwritten Manuscripts”, <i>International Conference on Document Analysis and Recognition (ICDAR)</i>, 2021. [Website] 4. Ayan Kumar Bhunia, Aneeshan Sain, Amandeep Kumar, Shuvojit Ghose, Pinaki Nath Chowdhury, Yi-Zhe Song, “Joint Visual Semantic Reasoning: Multi-Stage Decoder for Text Recognition”, <i>International Conference on Computer Vision (ICCV)</i>, 2021. [arXiv] 	
SCIENTIFIC RESEARCH EXPERIENCE	APRIL, 2020 TO PRESENT	Role: Research Intern Advisor: Prof. Yi-Zhe Song , Ph.D. Professor of Computer Vision and Machine Learning, University of Surrey. Research Directions: Sketch Based Image retrieval, Handwritten Text Recognition.

APRIL, 2020 **Role:** Research Intern
 TO **Advisor:** Prof. Partha Pratim Roy, Ph.D.
 OCT, 2020 Faculty of CSE, IIT Roorkee, India
Research Directions: Content based image retrieval, thumbnail generation, Sign language recognition, Document image binarization.
 NOV, 2020 **Role:** Research Intern
 TO **Advisor:** Prof. Ravi Kiran Sarvadevabhatla , Ph.D.
 FEB, 2021 Faculty of CSE, IIIT Hyderabad, India
Research Directions: Document Image Understanding, Skeleton-based Human Activity Understanding.

FAMILIARITY WITH DL	(i) CNN (iv) DC-GANs (vii) Siamese Network (x) Domain Adaptation	(ii) Convolutional LSTM model (v) GANs for Image to Image Trans. (viii) Attention based Model (xi) Semantic Segmentation	(iii) RNN/LSTM (vi) Seq2Seq (ix) VAE (xii) Style Transfer
RELEVANT PROJECTS	<ul style="list-style-type: none"> • UDBNET: Unsupervised Document Binarization Network via Adversarial Game [Github] [Tools: Python/Pytorch] • Implementation of the machine learning algorithm from scratch python [Github] [Tools: Python] • Implementation of the paper "Attention-Aware Polarity Sensitive Embedding for Affective Image Retrieval" [Tools: Python/Pytorch] 		
ACHIEVEMENTS	<ul style="list-style-type: none"> • Certificate of merit for outstanding performance in the "ThinkAI :The IEEE machine learning summit 2019" • Best Party winner position in the event of youth parliament,edge(2019). • 1st prize winner in painting competition organized by "SCHOOL OF FINE ARTS". (in 5th standard). • Certificate of participation of volleyball in the annual school function (in btech standard). • first prize winner of science exhibition in the annual school function (in 6th standard). • 1st Prize winner in interschool quiz(in 6th standard) • Green belt in kick boking 		
RELEVANT COURSEWORK	(i) Linear Algebra & Diff. Eqn. (iv) Digital Image Processing	(ii) Statistics & Probability (v) Digital Signal Processing	(iii) Control System (vi) Signals and System
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Programming Languages: C, Java, MATLAB, Python. • Deep Learning Framework: Pytorch(Confident). • Hardware Exposure:Arduino. • Mathematics: Linear-algebra, Probability, Statistics. • Miscellaneous: OpenCV, LIBSVM library, NLTK library. 		