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RESEARCH INTERESTS	Computer Vision, Deep Learning, Machine Learning, Pattern Recognition, Image Processing.	
PRESENT POSITION	Pursuing B.TECH in CSE (since August 2016).	
EDUCATION	<b>Institute of Engineering &amp; Management, Kolkata (India)</b> Since 2016 <b>University:</b> Maulana Abul Kalam Azad University of Technology <i>Formerly known as West Bengal University of Technology</i> <ul style="list-style-type: none"> <li>- Computer Science &amp; Engineering</li> <li>- DGPA: Approx 8.7/10 (In 7 Semesters)</li> <li>- Pursuing Bachelor of Technology (Honours)</li> </ul>	
	<b>Pangsha College, Pangsha, Rajbari (Bangladesh)</b> 2015 - Board of Intermediate and Secondary Education, Dhaka(12 <sup>th</sup> Standard) - GPA: 5.00/5.00	
	<b>Yakub Ali Chowdhury Bidyapith, Pangsha, Rajbari (Bangladesh)</b> 2013 - Board of Intermediate and Secondary Education, Dhaka (10 <sup>th</sup> Standard) - GPA: 5.00/5.00	
JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> <li>1. <b>Shuvozit Ghose</b>, Abhirup Das, Ayan Kumar Bhunia, Partha Pratim Roy, “Fractional Local Neighborhood Intensity Pattern for Image Retrieval using Genetic Algorithm”, <b>Multimedia Tools and Applications 2020, Springer</b> (DOI:10.1007/s11042-020-08752-6). <a href="#">[PDF]</a> <a href="#">[arXiv]</a> <ul style="list-style-type: none"> <li>• <b>Highlights:</b> <ul style="list-style-type: none"> <li>• A new texture descriptor has been proposed utilizing genetic algorithm for content based image retrieval.</li> <li>• Our method has achieved superior performance in comparison to other state-of-art approaches on Brodatz texture image, Salzburg texture database, Salzburg texture database and AT&amp;T face database. .</li> </ul> </li> </ul> </li> <li>2. Ayan Kumar Bhunia, Ankan Kumar Bhunia, <b>Shuvozit Ghose</b>, Abhirup Das, Partha Pratim Roy, Umapada Pal “A Deep One-Shot Network for Query-based Logo Retrieval”, <b>Pattern Recognition</b>, Volume 96, Pages 106965, 2019. (DOI:10.1016/j.patcog.2019.106965). <a href="#">[PDF]</a> <a href="#">[Github]</a> <b>(I.F.- 5.898)</b> <ul style="list-style-type: none"> <li>• <b>Highlights:</b> <ul style="list-style-type: none"> <li>• A scalable solution for the logo detection problem by redesigning the traditional problem setting capable of detecting small logos.</li> <li>• A query-based logo search and detection system by employing a simple, fully differentiable one-shot learning framework which is adoptable to new classes.</li> </ul> </li> </ul> </li> </ol>	

1. **Shuvozit Ghose**, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal, “Modeling Extent-of-Texture Information for Ground Terrain Recognition”, *International Conference on Pattern Recognition (ICPR)*, Milan, 2020.[[PDF](#)] [[Github](#)] [[arXiv](#)]

• **Highlights:**

- a novel approach towards ground-terrain recognition by modeling the extent of texture information to establish a balance between the order-less texture and ordered-spatial information locally.
- introduced Intra-domain Message passing mechanism and Inter-domain Message passing module in the context of ground terrain recognition for rich feature learning. .

2. Perla Sai Raj Kishore, Ayan Kumar Bhunia, **Shuvozit Ghose**, Partha Pratim Roy, “User Constrained Thumbnail Generation Using Adaptive Convolutions”, *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, London, 2019.[[PDF](#)] [[Github](#)] [[arXiv](#)] [[Oral](#)]

• **Highlights:**

- A new framework for user constrained thumbnail generation using Adaptive Convolutions.
- Our method has achieved superior performance in comparison to other conventional approaches.

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"> <li>• Modeling Extent-of-Texture Information for Ground Terrain Recognition [<b>Tools:</b> Python/Pytorch] [<a href="#">Github</a>]</li> <li>• Shadow Detection using RESNET Encoder-Decoder Network [<b>Tools:</b> Python/Pytorch] [<a href="#">Github</a>]</li> <li>• A Deep One-shot Network for Query-based Logo Retrieval [<b>Tools:</b> Python/Tensorflow]</li> <li>• Object Recognition Using All CNN Network in CIFAR-10 [<b>Tools:</b> Python/Tensorflow] [<a href="#">Github</a>]</li> <li>• Triplet Dataset generation in FlickersLogos32 Dataset [<b>Tools:</b> Python] [<a href="#">Github</a>]</li> <li>• User Constrained Thumbnail Generation System [<b>Tools:</b> Python/Tensorflow]</li> <li>• E-Commerce Data Analysis Using Hadoop [<b>Tools:</b> Hadoop/Hive] [<a href="#">Report</a>]</li> <li>• Smart Home Automation System using Sensors [<b>Tools:</b> Arduino/C] [<a href="#">Report</a>]</li> </ul>		
ACHIEVEMENTS	<ul style="list-style-type: none"> <li>• Trainee at OgmaTech Lab, 2019.</li> <li>• Got NPTEL Elite Certification in Deep Learning for Visual Computing, 2018.</li> <li>• Got A in 17th Rock Climbing Course, 2017.</li> <li>• Complete Marathon in UEM-IEM Kolkata Marathon 2017.</li> <li>• Active Member of Green Revolution.</li> <li>• 2nd Prize in Tabla, Bangladesh Sishu Academy Competition District Level, 2009.</li> </ul>		

RELEVANT COURSEWORK	(i) Linear Algebra & Diff. Eqn. (iv) Object Oriented Programming	(ii) Statistics & Probability (v) Algorithm	(iii) Data Structure (vi) Discrete Mathematics
TECHNICAL SKILLS	<ul style="list-style-type: none"> <li>• Programming Languages: C, C++, JAVA, Python.</li> <li>• Low level Programming : 8085 Assembly.</li> <li>• Deep Learning Framework: Tensorflow, Pytorch.</li> <li>• Big Data Platform: Hadoop, Map-Reduce, Hive, Hbase, Pig, Scoop.</li> <li>• Hardware Exposure: Arduino.</li> <li>• Web Platform: HTML, CSS, JavaScript.</li> <li>• Mathematics: Linear-algebra, Probability, Statistics.</li> <li>• Miscellaneous: OpenCV, LIBSVM library, HTK library.</li> </ul>		
TEST SCORES	<ul style="list-style-type: none"> <li>• GRE: Total: 307, Quants: 160/170, Verbal: 147/170, AWA: 3.0</li> <li>• IELTS: 6.5 (R-6.5, L-6.5, W-6.0, S-6.0)</li> </ul>		
REFERENCES	<p>Dr. Partha Pratim Roy Associate Professor Dept. of Computer Science Indian Institute of Technology, Roorkee.</p> <p>Dr. Sourav Saha Head of the Department Dept. of Computer Science and Engg. Institute of Engineering &amp; Management, Kolkata.</p>		
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