SHEFALI SRIVASTAVA

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EDUCATION

Netaji Subhas Institute of Technology (NSIT), ***Delhi University, New Delhi*** ***Aug' 2014 – Jul' 2018***
Bachelor's of Engineering in Information Technology: GPA 9.328/10 **(*Department Rank 3 in IT Batch of 90*)**

RESEARCH EXPERIENCE & INTERNSHIPS

Visual and Parallel Computing Lab @ University of Georgia, *Athens, GA, USA* *Dec. 2017 - Feb. 2018*
Research Intern
Worked on the problem of matching highly disparate image pairs. Developed a deep spectral correspondence scheme for harnessing the representational power of local feature descriptors to derive a complex high-level global shape representation for matching. Also proposed a benchmark dataset with a large number of image pairs. The proposed scheme enjoys invariance to affine parameters afforded by global shape cues along with robustness to occlusion infused by low-level feature descriptors.

Department of Information Technology @ NSIT *Feb. 2016 - Nov. 2017*
Research Intern
Underwent a detailed study about the challenges in Opportunistic Networks — Security, Congestion Control and Routing. Developed an intelligent routing protocol by incorporating the benefits of nature inspired algorithms along with the intelligence of neural networks to maximize delivery ratios while keeping packet losses at a minimum.

Royal Bank of Scotland *May 2017 - July 2017*
Software Development Intern
Created a Dashboard for Support Team of Corporate Business Data Mart (CBDM) Department for identification of timely incoming of Upstream feeds and generation of extracts for downstream services using Oracle PL/SQL and Oracle APEX. Also implemented small level design of OLAP Cubes.

PROJECTS

- Matching Disparate Image Pairs using Share Aware ConvNets. *Feb. 2018 – Jun. 2018*
- Project Based Learning to Biometrics: Analysis of scenarios affecting performance of Speaker Recognition systems. *Aug. 2017 – May 2017*
- Stock Market prediction using Neural Networks *Aug. 2016 – Nov. 2016*
- Multimodal biometric system with new Palm-Phalanges Database *Jan. 2016 – Apr. 2016*

WORK EXPERIENCE

Adobe Systems Pvt. Ltd, Noida. ***July' 2018 – Present***
Software Developer Engineer II
Worked as a part of team Flow-Service in Digital Experience to ingest data from multiple third party sources onto Adobe Experience Platform. Worked closely with Informatica on ETL-SDK provided by Adobe to ingest data in Adobe standard XDM format onto Adobe Cloud. Available as open source on github. Also Implemented framework for data transfer to One Data Model as part of a cross company partnership of Open Data Initiative between Adobe, Microsoft and SAP.

TECHNICAL SKILLS

- Programming Languages & Technologies – Java, Python, C++, MATLAB, LaTeX
- Framework & Concepts– Spring, Spring Boot, Google Guice, AGILE Practices, Testing frameworks in Groovy, Cucumber, DevOps

AWARDS & RECOGNITIONS

- Chosen to Represent Adobe at Grace Hopper Conference India 2019. *Adobe, Nov. 2019*
- Awarded Spot Award for excellent contribution to Partner Connectors and ETL. *Adobe, Mar. 2019*
- Awarded Best Project Award at Java + Web Technologies Bootcamp. *Adobe, Aug. 2018*
- Awarded Merit Scholarship for 4 consecutive undergraduate years for consistently being in the top 1%. *NSIT, 2014 - 2018*

PUBLICATIONS

- **Shefali Srivastava**, Simran Aggarwal, Rishika Karira, "BERTMap: Automatic Schema Mapping based on Semantic Data Type Detection" in *Proceedings of the 2021 ACM SIGMOD/PODS International Conference on Management of Data. (2021)* [Submitted]
- Aman Sawarn, **Shefali Srivastava**, Monika Gupta, Smriti Srivastava, "BeamAtt: Generating Medical Diagnosis from Chest X-Rays using Sampling Based Intelligence" in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition. (2021)* [Submitted]
- **Shefali Srivastava**, Shubham Kumaram, Deepak Kumar Sharma "Neural Network based Routing Protocol for Opportunistic Networks with Intelligent Water Drop Optimization" in *International Journal of Communication Systems, Wiley* (2020). [https://doi.org/10.1002/dac.4368]
- **Shefali Srivastava**, Abhimanyu Chopra, Arun C.S. Kumar, Suchendra M. Bhandarkar, Deepak Sharma, "Matching Disparate Image Pairs using Shape Aware Conv-Nets" in *IEEE Winter Applications of Computer Vision*, Jan. 2019, pp. 531-540. [DOI: 10.1109/WACV.2019.00062]
- **Shefali Srivastava**, Arun C.S. Kumar, Anirban Mukhopadhyay, Suchendra M. Bhandarkar "Deep Spectral Correspondence for Matching Disparate Image Pairs" in *Computer Vision and Image Understanding Journal (CVIU), Elsevier*, Sep. 2018. [arXiv:1809.04642] [Revision Submitted]
- Gopal Chaudhary, **Shefali Srivastava**, Smriti Srivastava, "Biometric authentication using local sub- space adaptive histogram equalization" in *Journal of Intelligent & Fuzzy Systems, IOS Press*, Mar. 2017, vol. 32, no. 4, pp. 2893-2899. [DOI: 10.3233/JIFS-169232]
- Gopal Chaudhary, Smriti Srivastava, Saurabh Bhardwaj, **Shefali Srivastava**, "Information Fusion in Animal Biometric Identification" in *Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications, Springer*, Mar. 2017, pp. 609-617. [DOI: 10.1007/978- 981-10-3153-3$_6$0]