Akshita Bhandari

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Objective

To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the computing and research field with sheer determination, dedication and hard work.

Work Experience

08/2019 - Present	Indian Institute of Science, Bengaluru, Karnataka India *Research Assistant*
01/2016 - 07/2016	Indian Institute of Science, Bengaluru, Karnataka India *Research Intern*
06/2015 - 07/2015	NIT, Delhi *Research Intern*

Education

2016 - 2019	Indian Institute of Science, Bangalore *M.Tech(Res) in Machine Learning GPA: 7.5*
2012 - 2016	NIIT University, Neemrana, Rajasthan *B.Tech in Computer Science GPA: 9.2*

Skills

C, JAVA, Python, SQL, MATLAB, Flask, Django

Projects

- Facilitate computerized process for student admission, attendance and academic monitoring using Django.
- Employee Management Database System with functionally related GUI and database using Java and MySQL. This was designed using waterfall model.
- Firewall Extension on Windows Platform using Visual Basic and C#.
- Implemented DNA Sequence Alignment using Dynamic Programming with GUI.
- Implemented Deadlock detection, avoidance and recovery Algorithm using jstack and visualVM.
- Implemented a Dictionary using the concept of Hashing.
- Mobility in wireless sensor networks and setting up of energy model in NS2.
- Principal Component Analysis of Compressor Connection Rod Defects using Matlab.
- Successfully implemented Motion Detector circuit which could work with and without remote.
- Worked on a Project on Steganography using java in which a message could be hidden and stored in an image tweaking it's pixels.
- Worked on building a Heart Attack Detector and Alert circuit using GSM Modem and Embedded C.

Publications

- Bhandari, Akshita, and Chandramani Singh "Federated Multi Task Online Learning." *(submitted)*
- Bhandari, Akshita, and Chandramani Singh "Accelerated Randomized Coordinate Descent Methods for Stochastic Optimization and Online Learning with Regularization." *(submitted)*
- Bhandari, Akshita, and Chandramani Singh "Accelerated Randomized Coordinate Descent Algorithms for Stochastic Optimization and Online Learning." In: Battiti R., Brunato M., Kotsireas I., Pardalos P. (eds) Learning and Intelligent Optimization. LION12 (2018). Lecture Notes in Computer Science, vol 11353. Springer, Cham (2019).
- Bhandari, Akshita, Ashutosh Gupta, and Debasis Das. "Betweenness centrality updation and community detection in streaming graphs using incremental algorithm." Proceedings of the 6th International Conference on Software and Computer Applications. ACM, 2017.
- Bhandari, Akshita, Ashutosh Gupta, and Debasis Das. "A framework for data security and storage in Cloud Computing." Computational Techniques in Information and Communication Technologies (ICCTICT), 2016 International Conference on. IEEE, 2016.
- Bhandari, Akshita, Ashutosh Gupta, and Debasis Das. "Secure algorithm for cloud computing and its applications." Cloud System and Big Data Engineering (Confluence), 2016 6th International

Conference. IEEE, 2016.
- Bhandari, Akshita, Ashutosh Gupta, and Debasis Das. "Improvised apriori algorithm using frequent pattern tree for real time applications in data mining." Procedia Computer Science 46 (2015): 644-651.

Poster Presentations:
- Bhandari, Akshita, and Chandramani Singh "Distributed Online Learning over Networks." Comsnets 2017.
- Gupta, Ashutosh, and Akshita Bhandari "Faster and efficient algorithm for detecting overlapping and nested palindrome sequences in DNA sequences." 3rd International Conference on Biotechnology and Bioinformatics (ICBB-2016).
- Bhandari, Akshita, Ashutosh Gupta, and Debasis Das "Betweenness Centrality For Growing Networks Using LFR." Grace Hopper Celebration India (GHCI) 2015 conference (Best Poster Award Runner-up).

Reviewed Papers:
- "Order Reduction of Discrete System Models Employing Mixed Conventional Techniques and Evolutionary Techniques." IEEE ANTS 2017.

Accomplishments

Secured AIR 28 in JEST 2016.
Qualified GATE in 2016.
Awarded 50% scholarship for B.Tech Program at NIIT University for 4 years consecutively.
Machine Learning coursera certificate by Andrew Ng (secured 100%)

References

Dr. Chandramani Singh   Dr. Debasis Das
Assistant Professor   Assistant Professor
DESE, IISc Bangalore   CSE Dept, BITS GOA