Niharjyoti Sarangi

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WORK EXPERIENCE

Epic Systems, SOFTWARE DEVELOPER   OCT 2014 - PRESENT
- Designed and developed critical workflows for the patient portals MyChart and Lucy which are used by more than 30 Million patients to access their Electronic Health Record
- Currently working with the Predictive Analysis group on developing techniques to cluster diagnoses, medications, and lab results and to establish a causal relationship   *(C#, JavaScript, Caché/M)*

Infosys Limited, SYSTEMS ENGINEER   JULY 2010 - JUNE 2011
- Developed a rule-based engine for generating responses to domain specific technical queries. This system was used by Boeing to provide post-sales support for its airplanes.   *(Java, SQL, XML)*

Indian Institute of Technology Madras, GRADUATE RESEARCH ASSISTANT   JUNE 2011 - MAY 2014
- Teaching assistant for undergraduate level course ADVANCED PROGRAMMING and graduate level courses MACHINE LEARNING and KERNEL METHODS FOR PATTERN ANALYSIS

EDUCATION

MS in COMPUTER SCIENCE, *Indian Institute of Technology Madras*   2014
- RELEVANT COURSEWORK: Pattern Recognition, Kernel Methods, Natural Language Processing, Social Network Analysis, Knowledge Representation and Reasoning (CGPA: 8.4/10)

Bachelor of Technology in INFORMATION TECHNOLOGY, *VSS University of Technology, India*   2010
- RELEVANT COURSEWORK: Data Structures, Algorithms, Object Oriented Programming, Operating Systems, Database, Artificial Intelligence, Computer Networks, Compiler Design (CGPA: 8.3/10)

PUBLICATIONS

- Niharjyoti Sarangi and C. Chandra Sekhar. *Pattern Recognition: Applications and Methods*, chapter **Tensor Deep Stacking Networks and Kernel Deep Convex Networks for Annotating Natural Scene Images**, pages 267–281. Springer, Cham, Switzerland, 2015. Link
- Niharjyoti Sarangi and C. Chandra Shekhar. **Automatic Image Annotation Using Convex Deep Learning Models**. In *International Conference on Pattern Recognition Applications and Methods, Lisbon*, 2015. Link

PROJECTS

Image annotation and classification using deep learning models   JAN 2013 - JUNE 2014
- Used Convolutional Neural Networks to learn high-level representations from large image datasets. Convex deep learning models such as TDSN or KDCN used these representations as input to classify and annotate natural scene images in a fast and reliable way on GPU.   *(Python, Pylearn2)*

Affective Mario   MAR - MAY 2013
- Developed an add-on for the classic video game that enables the integration of real-time emotions of the player into the game-play. A depth-sensing camera was used to track the facial points of the user and an SVM based classifier was used to detect the emotions.   *(Microsoft Kinect, FACS, libSVM)*

Community Detection in Large Social Networks Using PCCA+   JAN - JUNE 2012
- Developed an approach for detecting communities in large social networks using Peron clusters analysis. Evaluated the performance of this approach on the basis of modularity and compared with state-of-art approaches on standard social network datasets   *(Python, NetworkX)*

TECHNICAL SKILLS

- PROGRAMMING: Java, Python, C/C++, Bash, Matlab
- WEB TECHNOLOGIES: HTML/CSS, JavaScript, PHP
- DATABASE TECNOLOGIES: SQL, Caché/M
- ML TOOLKITS: LIBSVM, NLTK, Theano, TensorFlow

AWARDS

- Awarded outstanding Teaching Assistant for the course KERNEL METHODS FOR PATTERN ANALYSIS by the Department of CSE, IIT Madras   (2013)
- Winner of YAHOO HACKU - IIT MADRAS, a 24 hour hackathon for two consecutive years   (2013, 2012)
- Awarded SUN CAMPUS AMBASSADOR OF THE MONTH   (FEBRUARY 2009)
- Winner, ASPIRATIONS 2020, an Inter-college programming contest organized by Infosys   (2009)

Date : May 13, 2016   *http://www.niharsarangi.com*
Place: Madison   *https://www.linkedin.com/in/niharjyoti*