Sunil Sahu

Bio Data

Flat No 20, 55 Hathersage Road
Manchester, UK
☎ (+44) 7404316373
✉ sunil.sahu@manchester.ac.uk
🖥 https://sunilitggu.github.io/

Research Interests

Natural Language Processing, Machine Learning, Deep Learning.

Professional Experiences

Oct-2017 to Present
Postdoctoral Researcher, *National Centre for Text Mining*, **The University of Manchester**, Manchester, UK, `Project: Cross-sentence relation extraction using deep neural network` .

July-Oct.2016
Research Internship, *Graph and Text Analytics Group*, **Xerox Research Center India**, Bangalore, Karnataka, India, `Project : Phrase embedding for biomedical text using deep learning techniques` .

Feb-Apr.2016
Research Internship, *Text Mining and Analitics Group*, **GVKBioscience Private Limited**, Hyderabad, Telangana, India, `Project : Relation extraction from clinical texts using domain invariant convolutional neural network`.

Education

2013-2017
PhD (Computer Science and Engineering), *Department of Computer Science and Engineering, Indian Institute of Technology Guwahati, Assam, India*.

2011–2013
MTech (Computer Science), *School of Computer and Information Science, University of Hyderabad, Hyderabad, Andhra Pradesh*, India.

2005–2009
BE (Computer Science and Engineering), *Department of Computer Science and Engineering, Guru Ghasidash Vishwavidyalaya Bilaspur, Chhattisgarh*, India.

Teaching Experiences

2017
Deep Learning Techniques and its Applications, *Course Instructor*, NIT Raipur, India, A short term course.

2016
Intelligent Systems and Interfaces, *Teaching Assistant*, IIT Guwahati.

2013
Natural Language Processing, *Teaching Assistant*, University of Hyderabad.

2012
Data Mining, *Teaching Assistant*, University of Hyderabad.

Technical Skills

Python, C, C++, Java, tensorflow, theano, scikit-learn, NLTK, CoreNLP, OpenNLP, MySQL, BANNER, LingPipe, UMLS, Metamap.

Scholarships/Grants

6-12 Aug 2016 **Selected for the grant to attend ACL-2016 Conference from Google Research, Microsoft Research India and ACM-India/IARCS** .

2013-17 **MHRD fellowship to do PhD**.

2011-13 **MHRD fellowship to do MTech**.

Recent Publications

2018 **Drug drug interaction extraction from biomedical text using long short-term memory network**, *Sunil Kumar Sahu, Ashish Anand*, **Journal of Biomedical Informatics (In Press)**, https://arxiv.org/abs/1701.08303.

2018 **What matters in a transferable neural network model for relation classification in the biomedical domain?**, *Sunil Kumar Sahu, Ashish Anand*, **Artificial Intelligence in Medicine 87 60-66**.

2017 **Learning local and global contexts using a convolutional recurrent network model for relation classification in biomedical text**, *Desh Raj, Sunil Kumar Sahu, Ashish Anand*, **CoNLL-2017**, Vancouver, Canada.

2017 **Biomedical Event Trigger Identification Using Recurrent Neural Network**, *Rahul PVS, Sunil Kumar Sahu, Ashish Anand*, **BioNLP at ACL-2017**, Vancouver, Canada.

2017 **Investigating how well contextual features are captured by Bi-directional Recurrent Neural Network Models**, *Kushal Kumar, Sunil Kumar Sahu, Ashish Anand*, **ICON-2017**, Kolkata, India.

2016 **Relation extraction from clinical texts using domain invariant convolutional neural network**, *Sunil Kumar Sahu, Ashish Anand, Krishna Dev Orungati, Mahanandeeshwar Gattu*, **BioNLP at ACL-2016**, Berlin, Germany.

2016 **Recurrent neural network models for disease name recognition using domain invariant features**, *Sunil Kumar Sahu, Ashish Anand*, **ACL-2016**, Berlin, Germany.

2016 **Predicting online doctor ratings from user reviews using convolutional neural networks**, *Ranti Dev Sharma, Samarth Tripathi, Sunil Kumar Sahu, Sudhanshu Mittal and Ashish Anand*, **ICMLC-2016**, Osaka, Japan.

2015 **Evaluation of distributed word representation for capturing semantics of biomedical text**, *Muneeb Th, Sunil Kumar Sahu, Ashish Anand*, **BioNLP at ACL-2015**, Beijing, China.

Unpublished Works

2018 **Siamese neural networks with random forest for detecting duplicate question pairs**, *Ameya Godbole, Aman Dalmia, Sunil Kumar Sahu*, https://arxiv.org/abs/1801.07288.

2017 **Unified neural architecture for drug, disease and clinical entity recognition**, *Sunil Kumar Sahu, Ashish Anand*, https://arxiv.org/abs/1708.03447.

2014 **Named entity recognition in tweets using conditional random field (CRF) and domain specific features**.

2014 **Object recognition in images through deep convolutional neural network (CNN)** .

2013 **Digit recognition system in speech signal using hidden markov model (HMM)** .

2013 **Language identification system for small (ISCII coded) text corpus using different linear non-linear classifier**.

Conference/Workshop/Summer School Participations:

2016 **ACL-2016**, *Humboldt University, Berlin, Germany*, August 7-12, Thanks to Google Research India, Microsoft Research India and ACM-India/IARCS for entire traveling and other expenses support.

2015 **ACL-2015**, *China National Convention Center Beijing, China* , July 30 to Aug 1, Thanks to IIT Guwahati for entire traveling and other expenses support.

2015 **Summer School on Machine Learning**, *Microsoft Research and IISc Bangalore (Karnataka)*, 15 June to 26 June, Thanks to Microsoft Research India for entire traveling and other expenses support.

2015 **Information and Communication Technology in Healthcare: Challenges and Promises**, *IIT Guwahati (Assam)*, 25 March.

2014 **National Workshop on GPU Programming and Application**, *IIT Guwahati (Assam)*, 12 Sep to 14 Sep.

2008 **Information Security : Practice and Challenges**, *ITGGU Bilaspur (CG)*, 9 Feb to 10 Feb.

Research Talks:

2017 **Intelligence System Course**, *Indian Institute Technology Guwahati*, **Introduction of TensorFlow**.

2015 **ML Group**, *Indian Institute Technology Guwahati*, **Neural Probabilistic Language Model**.

2015 **Techniche-2015**, *Indian Institute Technology Guwahati*, **Evaluating distributed word representations for capturing semantics of biomedical concepts**.

2015 **Research Conclave-2015**, *Indian Institute Technology Guwahati*, **Recent Trends in Machine Learning**.

Languages

First **Hindi**.

Second **English**.

Personal

Full Name **Sunil Kumar Sahu**.

Other Interest **Athletics,Swimming**.

References

Dr. Ashish Anand, *Associate Professor*, **Indian Institute Technology Guwahati**, email id: anand.ashish@iitg.ernet.in.

Dr. Niranjan Uma Naresh, *Applied Scientist*, **Microsoft Seattle**, email id: Niranjan.Uma@microsoft.com.