

# Sunil Sahu

*Bio Data*

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## Education

- 2013–Present **Pursuing PhD**, *Department of Computer Science and Engineering, Indian Institute of Technology Guwahati, Assam, India.*
- 2011–2013 **M Tech (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 Vishvavidyalay Bilaspur, Chhattisgarh, India.*

## Research Interests

Natural Language Processing, Data Mining, Machine Learning, Deep Learning.

## Professional Experiences

- 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 Analytics Group, GVKBioscience Private Limited, Hyderabad, Telangana, India, Project : Relation extraction from clinical texts using domain invariant convolutional neural network.*

## Teaching Experiences

- 2016 **Intelligent Systems and Interfaces**, *Teaching Assistant, IIT Guwahati.*
- 2015 **Operating System and Lab**, *Teaching Assistant, IIT Guwahati.*
- 2014 **Programming Language**, *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 M Tech.

## Recent Works (Published and Submitted)

- Submitted **What matters in a transferable neural network model for relation classification in the biomedical domain?**, *Sunil Kumar Sahu, Ashish Anand*, EMNLP-2017.
- Accepted **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.
- Accepted **Biomedical Event Trigger Identification Using Recurrent Neural Network**, *Rahul PVS, Sunil Kumar Sahu, Ashish Anand*, BioNLP at ACL-2017.
- Under review **Drug Drug Interaction Extraction from Biomedical Text Using Long Short Term Memory Network**, *Sunil Kumar Sahu, Ashish Anand*, *Journal of Biomedical Informatics*, <https://arxiv.org/abs/1701.08303>.
- 2016 **Relation extraction from clinical texts using domain invariant convolutional neural network**, *Sunil Kumar Sahu, Ashish Anand, Krishna Dev Orungati, Mahanandeeswar Gattu*, **BioNLP at ACL-2016**, Berlin, Germany, <https://aclweb.org/anthology/W/W16/W16-2928.pdf>.
- 2016 **Recurrent neural network models for disease name recognition using domain invariant features**, *Sunil Kumar Sahu, Ashish Anand*, **ACL-2016**, Berlin, Germany, <http://aclweb.org/anthology/P/P16/P16-1209.pdf>.
- 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, <http://www.ijmlc.org/vol6/590-L017.pdf>.
- 2015 **Evaluation of distributed word representation for capturing semantics of biomedical text**, *Muneeb Th, Sunil Kumar Sahu, Ashish Anand*, **BioNLP at ACL-2015**, <https://aclweb.org/anthology/W/W15/W15-3820.pdf>.

## Unpublished Works

- 2016 **Disease synonyms extraction from biomedical corpora using different Word Embedding techniques.**
- 2015 **Biomedical entity recognition in PubMed articles through character level word embedding and Recurrent Neural Network (RNN) .**
- 2014 **Named entity recognition in tweets through Conditional Random Field (CRF) .**
- 2014 **Object recognition in images through deep Convolutional Neural Network (CNN) .**
- 2014 **Parts of speech tagging in English language text through Hidden Markov Model (HMM) .**
- 2013 **Digit recognition system in speech signal by Hidden Markov Model (HMM) .**
- 2013 **Spam mail detection through Support Vector Machine (SVM) .**
- 2013 **Digit recognition in hand written images through Multi Layer Perceptron (MLP).**
- 2013 **Language identification system for small (ISCII coded) text corpus through 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.

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## Languages

First **Hindi.**  
Second **English.**

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## Personal

Full Name **Sunil Kumar Sahu.**  
Other Interest **Athletics,Swimming.**

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## References

**Dr. Ashish Anand**, *Assistant Professor*, Department of Computer Science and Engineering, **IIT Guwahati**, email id: anand.ashish@iitg.ernet.in.

**Dr. Sandya Mannarswamy**, *Research Scientist*, **Xerox Research Center Bangalore**, email id: sandya.mannarswamy@xerox.com .

**Prof. K Narayana Murthy**, *Professor*, School of Computer and Information Science **University of Hyderabad**, email id: knmuh@yahoo.com.

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