

# Sunil Kumar Sahu

Website: <https://sunilitggu.github.io>

Email: [sunilitggu@gmail.com](mailto:sunilitggu@gmail.com)

LinkedIn: [sunil-sahu-202b133b](#)

GitHub: [github.com/sunilitggu/](https://github.com/sunilitggu/)

## EDUCATION

---

### IIT Guwahati

Ph.D. in NLP, Advisor: Dr. Ashish Anand

– Thesis: “Neural architectures for NER and RE in biomedical and clinical texts”

Guwahati, India

2013–2017

### University of Hyderabad

M.Tech. in CSE, GPA: 8.03/10.00

Hyderabad, India

2011–2013

### Guru Ghasidas University

B.E. in CSE, GPA: 6.5/10.00

Bilaspur, India

2005–2009

## EXPERIENCE

---

### Inception Institute of Artificial Intelligence

Research Associate

Abu Dhabi, UAE

March 2019–Currently

### University of Manchester

Post Doctoral Fellow

Manchester, UK

Sep 2017–March 2019

### Xerox Research Centre

Research Intern

Bangalore, India

Summer 2016

### GVK Bioscience

Research Intern

Hyderabad, India

Winter 2016

## TEACHING

---

- **Teaching Assistant** at IIT Guwahati Spring 2016  
*Intelligent Systems and Interfaces (CS565)*
- **Teaching Assistant** at University of Hyderabad Spring 2013  
*Natural Language Processing (AI482)*
- **Teaching Assistant** at University of Hyderabad Spring 2012  
*Data Mining (CS422)*

## SKILLS

---

- **NLP:** NLTK, CoreNLP, OpenNLP, BANNER, LingPipe, UMLS, Metamap
- **ML:** Tensorflow, Pytorch, Fairseq, Scikit-learn
- **Database:** MySQL

## LANGUAGES

---

- **Python:** Advance Level
- **Java:** Intermediate Level
- **C++:** Intermediate Level

- [1] B. Chiu, S. K. Sahu, N. Sengupta, D. Thomas, and M. Mahdy, “Attending to inter-sentential features in neural text classification”, in *Proceedings of the 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval*, ser. SIGIR ’20, Virtual Event, China: Association for Computing Machinery, 2020, pp. 1685–1688, ISBN: 9781450380164.
- [2] B. Chiu, S. K. Sahu, D. Thomas, N. Sengupta, and M. Mahdy, “Autoencoding keyword correlation graph for document clustering”, in *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)*, Online: Association for Computational Linguistics, Jul. 2020, pp. 3974–3981.
- [3] S. K. Sahu and A. Anand, “Unified neural architecture for drug, disease, and clinical entity recognition”, in *Deep Learning Techniques for Biomedical and Health Informatics*, B. Agarwal, V. E. Balas, L. C. Jain, R. C. Poonia, and Manisha, Eds., Academic Press, 2020, pp. 1–19, ISBN: 978-0-12-819061-6.
- [4] S. K. Sahu, D. Thomas, B. Chiu, N. Sengupta, and M. Mahdy, “Relation extraction with self-determined graph convolutional network”, in *Proceedings of the 29th ACM International Conference on Information and Knowledge Management*, ser. CIKM ’20, Association for Computing Machinery, 2020.
- [5] F. Christopoulou, T. T. Tran, S. K. Sahu, M. Miwa, and S. Ananiadou, “Adverse drug events and medication relation extraction in electronic health records with ensemble deep learning methods”, *Journal of the American Medical Informatics Association*, vol. 27, no. 1, pp. 39–46, Aug. 2019, ISSN: 1527-974X.
- [6] S. K. Sahu, F. Christopoulou, M. Miwa, and S. Ananiadou, “Inter-sentence relation extraction with document-level graph convolutional neural network”, in *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019)*, Florence, Italy: Association for Computational Linguistics, Jul. 2019, pp. 4309–4316.
- [7] S. K. Sahu and A. Anand, “Drug-drug interaction extraction from biomedical texts using long short-term memory network”, *Journal of Biomedical Informatics*, vol. 86, pp. 15–24, 2018, ISSN: 1532-0464.
- [8] S. K. Sahu and A. Anand, “What matters in a transferable neural network model for relation classification in the biomedical domain?”, *Artificial Intelligence in Medicine*, vol. 87, pp. 60–66, 2018, ISSN: 0933-3657.
- [9] K. Chawla, S. K. Sahu, and A. Anand, “Investigating how well contextual features are captured by bi-directional recurrent neural network models”, in *Proceedings of the 14th International Conference on Natural Language Processing (ICON 2017)*, Kolkata, India: NLP Association of India, Dec. 2017, pp. 273–282.
- [10] D. Raj, S. Sahu, and A. Anand, “Learning local and global contexts using a convolutional recurrent network model for relation classification in biomedical text”, in *Proceedings of the 21st Conference on Computational Natural Language Learning (CoNLL 2017)*, Vancouver, Canada: Association for Computational Linguistics, Aug. 2017, pp. 311–321.
- [11] R. V S S Patchigolla, S. Sahu, and A. Anand, “Biomedical event trigger identification using bidirectional recurrent neural network based models”, in *16th Workshop on Biomedical Natural Language Processing (BioNLP 2017)*, Vancouver, Canada: Association for Computational Linguistics, Aug. 2017, pp. 316–321.
- [12] S. Sahu and A. Anand, “Recurrent neural network models for disease name recognition using domain invariant features”, in *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL 2016)*, Berlin, Germany: Association for Computational Linguistics, Aug. 2016, pp. 2216–2225.

- [13] S. Sahu, A. Anand, K. Oruganty, and M. Gattu, "Relation extraction from clinical texts using domain invariant convolutional neural network", in *Proceedings of the 15th Workshop on Biomedical Natural Language Processing (BioNLP 2016)*, Berlin, Germany: Association for Computational Linguistics, Aug. 2016, pp. 206–215.
- [14] M. TH, S. Sahu, and A. Anand, "Evaluating distributed word representations for capturing semantics of biomedical concepts", in *Proceedings of 14th Workshop on Biomedical Natural Language Processing (BioNLP 2015)*, Beijing, China: Association for Computational Linguistics, Jul. 2015, pp. 158–163.

## SCHOLARSHIPS AND AWARDS

---

- 5th rank in WMT-2020 shared task Similar Language Translation 2020
- 3rd rank in N2C2 shared task track 2 Medical Event Extraction 2018
- Travel grant to attend ACL-2016 from Google and Microsoft 2016
- MHRD fellowship to do PhD 2013–2017
- MHRD fellowship to do MTech 2011–2013
- State fellowship to do BE 2005–2009

## TALKS

---

- *Deep Learning Techniques and its Applications*, TEQIP-III sponsored 5-day course , NIT Raipur 2017
- *Introduction of TensorFlow*, Intelligence System Course, IIT Guwahati 2017
- *Neural Probabilistic Language Model*, ML Group, IIT Guwahati 2015
- *Recent Trends in Machine Learning*, Research Conclave-2015, IIT Guwahati 2015

## EXTRACURRICULAR ACTIVITIES

---

- Program Committee  
*AAAI-2021, ACL-2020, EMNLP-2020, AAAI-2020, AACL-2020, NAACL-2019, ACL-2019, EMNLP-2019, EMNLP-2018*
- Reviewer  
*Journal of Biomedical Informatics, IEEE/ACM Transactions on Computational Biology and Bioinformatics*

## REFERENCES

---

- Prof. Sophia Ananiadou, *Professor* School of Computer Science, University of Manchester, United Kingdom email id: sophia.ananiadou@manchester.ac.uk
- Dr. Ashish Anand, *Associate Professor*, Department of Computer Science, Indian Institute of Technology Guwahati, India, email id: anand.ashish@iitg.ernet.in