

Tapas Nayak

CONTACT INFORMATION

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RESEARCH INTERESTS

Machine learning with a focus on deep learning and its application in natural language processing. I have a keen interest to work on information extraction, question-answering, and machine translation. My current research focus is extraction of relational facts from free text for enrichment of knowledge bases.

CURRENT WORK

- **Ph.D. in Computer Science** Aug, 2016 – Present
CGPA: 4.75 out of 5
School of Computing
National University of Singapore
Singapore

PUBLICATIONS

1. **Tapas Nayak** and Hwee Tou Ng. ‘Effective Modeling of Encoder-Decoder Architecture for Joint Entity and Relation Extraction. In the Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence, New York, USA, 2020.
2. **Tapas Nayak** and Hwee Tou Ng. Effective Attention Modeling for Neural Relation Extraction. In the Proceedings of the SIGNLL Conference on Computational Natural Language Learning (CoNLL), Hong Kong, 2019.
3. Santanu Pal, Sudip Naskar, Marcos Zampieri, **Tapas Nayak**, Josef van Genabith. CATaLog Online: A Web-based CAT Tool for Distributed Translation with Data Capture for APE and Translation Process Research. In the Proceedings of The 26th International Conference on Computational Linguistics (COLING): System Demonstrations, Osaka, Japan, 2017.
4. **Tapas Nayak**, Santanu Pal, Sudip Kumar Naskar, Sivaji Bandyopadhyay and Josef van Genabith. 2016. Beyond Translation Memories: Generating Translation Suggestions based on Parsing and POS Tagging. In the Proceedings of the 2nd Workshop on Natural Language Processing for Translation Memories (NLP4TM), Portorož, Slovenia, 2016.

5. Santanu Pal, Marcos Zampieri, Mihaela Vela, **Tapas Nayak** and Sudip Kumar Naskar, Josef van Genabith. 2016. CATaLog Online: Porting a Post-editing Tool to the Web. In the Proceedings of the 10th International Conference on Language Resources and Evaluation (LREC), 2016.
6. **Tapas Nayak**, Sudip Kumar Naskar, Santanu Pal, Marcos Zampieri, Mihaela Vela, Josef van Genabith. CATaLog: New Approaches to TM and Post Editing Interfaces. In the Proceedings of the Workshop on Natural Language Processing for Translation Memories (NLP4TM), Hissar, Bulgaria, 2015.

AWARDS

Research Achievement Award, 2020, National University of Singapore, Singapore
Amitava Dey Memorial Gold Medal, 2016, Jadavpur University, India
University Medal, 2016, Jadavpur University, India

INDUSTRY EXPERIENCE

Experience: 5 years.

PricewaterhouseCoopers India: 5th Dec, 2012-29th Sept, 2014

Position: Senior Consultant

Location: Salt Lake, Kolkata, India

Hewlett-Packard India Software Operations: 5th Aug, 2009 – 9th Nov, 2012

Position: SW Engr Firmware I

Location: Bengaluru, India

SKILL SET

- **Programming Languages:** C, C++, C#, Java, Python
- **Deep Learning Tools:** Keras, Pytorch, Tensorflow

ACADEMIC BACKGROUND

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|---|-----------|
| ▪ Master of Computer Sc. & Engineering | 2014 – 16 |
| Department of Computer Science & Engineering | |
| Jadavpur University | |
| Kolkata, India | |
| CGPA: 9.67 out of 10 | |
| ▪ Bachelor of Computer Sc. & Engineering | 2005 – 09 |
| Department of Computer Science & Engineering | |
| Jadavpur University | |
| Kolkata, India | |
| CGPA: 8.71 out of 10 | |