

Lalchand Pandia

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|---------------------|---|---|
| Education | University of Chicago Ph.D., Natural Language Understanding Advisor: Dr. Allyson Ettinger | <i>Sept 2022 - present</i> |
| | Indian Institute of Technology Kanpur M.Tech. Computer Science and Engineering (CSE) | <i>2015-2017</i> |
| | Kalasalingam University, Krishnankoil B.Tech.(Honours) Computer Science and Engineering (CSE) | <i>2008-2012</i> |
| Publications | Pragmatic competence of pre-trained language models through the lens of discourse connectives Lalchand Pandia, Yan Cong, Allyson Ettinger | <i><u>Accepted at CoNLL 2021</u></i> |
| | Sorting through the noise: Testing robustness of information processing in pre-trained language models Lalchand Pandia, Allyson Ettinger | <i><u>Accepted at EMNLP 2021</u></i> |
| Research Projects | Encoder based Attention Mechanism for Word Sense Disambiguation <i>Advised by Dr Harish Karnick</i> <ul style="list-style-type: none">• In this paper we presented the idea of transfer learning using a pre-trained BERT model to fine-tune a model for Word Sense Disambiguation.• Used a weighted loss function to handle extreme imbalance of senses in datasets.• Achieved state-of-the-art results on <u>hard</u>, <u>line</u>, <u>serve</u>, and <u>interest</u> datasets. Word Sense Disambiguation by learning Long Term Dependencies <i>M.Tech Thesis [Supervised by Dr Harish Karnick]</i> <i>Jan 2016 - Jun 2017</i> <ul style="list-style-type: none">• We applied bi-directional LSTM to use sequence information to disambiguate senses of a polysemous word.• Achieved better macro F1 scores than state-of-the-art on several datasets like <u>hard</u> and <u>serve</u>.• We tried the same approach on selected words from <u>One million sense tagged corpus</u> and achieved encouraging results. | |
| Industry experience | Huawei Technologies India Pvt. Ltd System Architect, | <i>Dec 2018- July 2022</i> <ul style="list-style-type: none">• Designed the logical replication module which will be used in FileSystem to allow data replication between different FileSystem and Amazon S3.• Coding of distributed manager for replication of data between Huawei distributed NAS storage clusters particularly focusing on functionality and performance of I/O path. |
| | NetApp India Pvt. Ltd Member of Technical Staff II, Focused on backup of data from NetApp storage servers to backup devices such as tape using <u>NDMP</u> . | <i>July 2017- July 2018</i> |

Tata Consultancy Services Pvt. Ltd

System Engineer,

Dec 2012- June 2015

Worked on Java client-server applications dealing with insurance policies.

**Teaching
Experience****Teaching Assistant**

Department of Computer Science, Indian Institute of Technology Kanpur

- Multiagent Systems: Games, Algorithms, Evolution (CS 785) Spring 2017
- Design and Analysis of Algorithms (CS 602A) Fall 2016

**Achievements
and Awards**

- Ranked in top 0.3% (amongst 1,15,425 candidates) in Graduate Aptitude Test in Engineering(GATE), 2015, Computer Science.
- Secured 2nd rank in Computer Science and Engineering Department in Bachelor of Technology, 2012.

Skills

- **Programming Languages:** C, C++, Java, Python
- **ML frameworks and softwares:** PyTorch, numpy, scikit-learn, pandas