

Lalchand Pandia

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Publications **Pragmatic competence of pre-trained language models through the lens of discourse connectives**
Lalchand Pandia, Yan Cong, Allyson Ettinger
Accepted at CoNLL 2021

Sorting through the noise: Testing robustness of information processing in pre-trained language models
Lalchand Pandia, Allyson Ettinger
Accepted at EMNLP 2021

Research Projects **Encoder based Attention Mechanism for Word Sense Disambiguation**
Advised by Dr Harish Karnick

- 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 hard, line, serve, and interest datasets.

Word Sense Disambiguation by learning Long Term Dependencies
M.Tech Thesis [Supervised by Dr Harish Karnick] Jan 2016 - Jun 2017

- 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 hard and serve.
- We tried the same approach on selected words from One million sense tagged corpus and achieved encouraging results.

Industry experience **Huawei Technologies India Pvt. Ltd**
System Architect, *Dec 2018- present*

- 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.

IQLECT Software Solutions Pvt. Ltd
Data Scientist, *Aug 2018- Nov 2018*
Designed and implemented session based recommendation system using Gated Recurrent Unit for e-commerce apps.

NetApp India Pvt. Ltd
Member of Technical Staff II, *July 2017- July 2018*
Focused on backup of data from NetApp storage servers to backup devices such as tape using NDMP.

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.	
Education	Indian Institute of Technology Kanpur	
	M.Tech. Computer Science and Engineering (CSE)	
	2015-2017	GPA: 8.33/10.00
	Kalasalingam University, Krishnankoil	
	B.Tech.(Honours) Computer Science and Engineering (CSE)	
	2008-2012	GPA: 9.27/10.00
Skills	• Programming Languages: C, C++, Java, Python	
	• ML frameworks and softwares: PyTorch, numpy, scikit-learn, pandas	