

Diptesh Kanojia

MALE, 28 YEARS

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Contact: +91 8879058668

EDUCATIONAL QUALIFICATION

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|------------------------------|----------|---|-------|
| Ph. D. | Pursuing | IITB – Monash Research Academy | -- |
| B. Tech. (CSE) | 2013 | Gautam Buddha Technical University, Lucknow | 72.9% |
| Higher Secondary Examination | 2005 | Greenfields Public School, Dilshad Garden, Delhi (CBSE) | 61.4% |
| Secondary Examination | 2003 | St. Josephs Academy, Savita Vihar, Delhi (CBSE) | 75% |

▪ Ranked among the **top three** students of college, in all the academic years during undergraduate studies.

SIGNIFICANT PUBLICATIONS (VISIT HOMEPAGE FOR ALL PUBLICATIONS)

1. Diptesh Kanojia, Arindam Chatterjee, Salil Joshi, and Pushpak Bhattacharyya, **Discrimination Net for Hindi**, International Conference for Computational Linguistics (COLING 2012), Mumbai, India, December 2012.
2. Salil Joshi, Diptesh Kanojia, and Pushpak Bhattacharyya, **More than meets the eye: Study of Human Cognition in Sense Annotation**, North American Chapter of Association of Computational Linguistics (NAACL 2013), Atlanta, U.S.A., June 2013.
3. **Diptesh Kanojia**, Shehzaad Dhuliawala, and Pushpak Bhattacharyya, *A picture is worth a thousand words: Using OpenClipArt library for enriching IndoWordNet*, Global WordNet Conference (GWC 2016), Bucharest, Romania, January 2016.
4. Abhijit Mishra, Diptesh Kanojia, and Pushpak Bhattacharyya, **Predicting Readers' Sarcasm Understandability by Modeling Gaze Behavior**, Thirtieth Association for the Advancement of Artificial Intelligence Conference (AAAI 2016), Phoenix, Arizona, U.S.A., February 2016.
5. Shehzaad Dhuliawala, Diptesh Kanojia, and Pushpak Bhattacharyya, **SlangNet: A WordNet like resource for English Slang**, Language Resource and Evaluation Conference (LREC 2016), Portorož, Slovenia, May 2016.
6. Diptesh Kanojia, Aaditya Joshi, Pushpak Bhattacharyya, and Mark J. Carman, **That'll do fine!: A coarse lexical resource for English-Hindi Machine Translation, using polylingual topic models**, Language Resource and Evaluation Conference (LREC 2016), Portorož, Slovenia, May 2016.
7. Abhijit Mishra, Diptesh Kanojia, Kuntal Dey, Seema Nagar and Pushpak Bhattacharyya, **Harnessing Cognitive Features for Sarcasm Detection**, Association for Computational Linguistics (ACL 2016), Berlin, Germany, August 2016.
8. Abhijit Mishra, Diptesh Kanojia, Seema Nagar, Kuntal Dey and Pushpak Bhattacharyya, **Leveraging Cognitive Features for Sentiment Analysis**, Conference on Computational Natural Language Learning (CoNLL 2016), Berlin, Germany, August, 2016.

CURRENT COURSEWORK

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| Ph. D. (2016 – Present) | <ul style="list-style-type: none">▪ Course on Linear Optimization (CS750)▪ Course on Kernel Programming (CS746)▪ Course on Information and Communication Technology for Socio-Economic Development (CS671)▪ Course on Communication Skills (CS792 + HS791)▪ Course on Algorithms & Complexity (CS601)▪ Course on Artificial Intelligence (CS621)▪ Software Lab (CS699)▪ Course on Embedded Systems (CS684)▪ Seminar on "Computational Phylogenetics" (CS801) |
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WORK EXPERIENCE

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| Research Engineer, CFILT, IITB (2013 – 2015) | <ul style="list-style-type: none">▪ Previously employed as a Research Engineer at Centre for Indian Languages Technology, IIT Bombay.▪ Cognitive studies for Sentiment annotation, Sarcasm Understandability, and Sarcasm Detection, through Gaze Tracking.▪ Multilingual Topic Modelling to improve Indian Language Machine Translation.▪ Working on maintenance Hindi, Marathi, Sanskrit WordNets, and IndoWordNet.▪ Parallel Corpora Management Workbench (PaCMan) – a machine translation aid allowing translation / validation / alignment for parallel corpora.▪ PanchaBhoota - Hierarchical Phrase based Statistical Machine Translation system for five language pairs.▪ Mobile App and Browser Plugin development for WordNets on Android, iOS, and Windows Phones.▪ Core Systems Administrator for Centre for Indian Language Technology handling / troubleshooting / maintaining both server systems, and desktop computers. |
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PREVIOUS RESEARCH WORK & PROJECTS

| "WordNet and its Applications" | | Summer Internship CSE Department, IIT Bombay | Guide: Prof. Pushpak Bhattacharyya July 2011 – Aug 2011 |
|--------------------------------|--|---|--|
| WordNet | <ul style="list-style-type: none">WordNet is a rich repository of knowledge of words and plays a key role in many Information Retrieval and Language Processing applications.Extensive study of WordNet (English and Hindi) and various state of the art algorithms. | | |
| IWSD Algorithm | <ul style="list-style-type: none">Work based on Error Analysis of the IWSD algorithm, divided in various parts, viz. POS based, Ontology based, Ablation test on IWSD parameters.Aim being the importance of contextual part of the scoring function of IWSD algorithm. | | |

| "Man vs. Machine Annotation for WSD" | | Research Project CSE Department, IIT Bombay | Guide: Prof. Pushpak Bhattacharyya Jan 2012 – Mar 2012 |
|---|---|--|---|
| Study of Man / Machine Annotation Process | <ul style="list-style-type: none">Our work aimed at understanding the meaning and significance of "contextual evidence", with respect to the human sense disambiguation task.The experiments probed into the disambiguation time across different POS categories and ontological categories, they also investigated into the set of clues in the neighbouring words of a pre-defined target word. | | |

| "Mechanisms for Sense Discrimination" | | Minor Research Project CSE Department, IIT Bombay | Guide: Prof. Pushpak Bhattacharyya Jun 2012 – Aug 2012 |
|--|---|--|---|
| Development of "Sense Discrimination Tool" | <ul style="list-style-type: none">Emphasized on importance of context and clue words around a target word synset word.Developed "Sense Discrimination Tool" which facilitates the addition of clue words by lexicographers manually into the WordNet database.Laid groundwork for automation of the tool using clues present in the database, using various heuristics. | | |

| "Mechanisms for Sense Discrimination" | | Major Research Project CSE Department, IIT Bombay | Guide: Prof. Pushpak Bhattacharyya Jan 2013 – Mar 2013 |
|---|---|--|---|
| Improvements in "Sense Discrimination Tool" and its Future Implications | <ul style="list-style-type: none">Improved the context word searching scenario by providing the lexicographers with a rich corpus.Facilitated the clue addition to database by including Google Hindi Transliteration API within the tool, and by including Concordancer Corpus search.Automated the clue searching by providing with an automatically generated possible clue set.Work on automatic clue addition in future using PMI and G² indexing of the clues.Laid groundwork for a possible future rule based framework to be called, "Discrimination Net". | | |

| "College Website in HTML5 and JS" | | Double Major Project CSE Department, KSJiet | Guide: Mrs Aishwarya Jain Jan 2013 – Mar 2013 |
|---|---|--|--|
| Developed the College Website in HTML5 & CSS3 | <ul style="list-style-type: none">Completed College Website development.Development of website in HTML5 and CSS3.Made use of JavaScript and jQuery plugins for many features. | | |

PROGRAMMING

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| C / C++ | <ul style="list-style-type: none">Advanced knowledge of C / C++ programming language, successful implementation of "Data Structures" and basic algorithms done during academic courses. |
| JAVA and Python | <ul style="list-style-type: none">Knowledge of JAVA and Python, Implementation of various algorithms for NLP and data manipulation during research work at CFILT. |
| PHP, HTML, CSS, MySQL, JS | <ul style="list-style-type: none">Proficient website designer, using the aforementioned languages and methods.Designed the complete College Website, in a short span of time.Tweaking and Maintenance of web based interfaces in CFILT Lab, IIT Bombay.Database Normalization for WordNets, CFILT, IIT Bombay. |

EXTRA CURRICULAR ACTIVITIES

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| Sports | <ul style="list-style-type: none">Passionate about sports like Basketball, Table Tennis and Volleyball.Enthusiastic runner, have participated in cross country events. |
| Reading | <ul style="list-style-type: none">Avid admirer of English Fiction, Read many novels and short stories, both in classical English Literature and in Modern day Literature. |
| Photography | <ul style="list-style-type: none">Zealous about digital photography, maintain an anthology of photography done by myself, using both Semi-DSLR and DSLR cameras. |
| Singing | <ul style="list-style-type: none">Winner of first prize in a school level singing competition. |
| Debating & Quizzes | <ul style="list-style-type: none">Participant in various school level debating competitions, and head of the college debating club.Winner of Intra College quiz competition, and many other quizzes at school level. |

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