Kinshuk Vasisht

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EDUCATION

Indian Institute of Science, Bengaluru, India
Ph.D. Computer Science & Engineering — 2023 – Present
Department of Computational and Data Sciences — CGPA: 9.2/10
Advisor: *Prof. Danish Pruthi*

University of Delhi, Delhi, India
M.Sc. in Computer Science, 2021–2023 — CGPA: 9.70 / 10 (Univ. Rank 1)
B.Sc. (H) Computer Science, 2018–2021 — CGPA: 9.82 / 10 (Univ. Rank 3)

PUBLICATIONS

The Role of Compositions for Cross-Lingual Knowledge Transfer — 2025
Kinshuk Vasisht, *Prarabdh Shukla, Danish Pruthi*

- Devised a controlled setup to attribute the role of data compositions towards cross-lingual knowledge transfer.
- Findings highlight the diminishing returns of increasing parallel data, the utility of knowledge dispersion and the equitable benefits for knowledge transfer by use of language mixing.
- Under review for ARR, January 2026.

Knowledge Graph Guided Evaluation of Abstention Techniques — 2024
Kinshuk Vasisht, *Navreet Kaur, Danish Pruthi*

- Developed a benchmark to evaluate techniques used to enforce abstention in language models, grounded in a knowledge graph (KG). Aims to assess effectiveness, generalization and specificity of these techniques.
- Focus on benign concepts from a KG allows isolating the effects of safety training, while leveraging the hierarchy of concepts from the KG allows evaluating generalization and specificity of abstention techniques.
- Published in *Main Conference of NAACL 2025*:
  https://aclanthology.org/2025.naacl-long.353
- Project Repository: https://github.com/kinshuk-h/SELECT

**Uncovering Geographical Disparities in Generated Stories
and Travel Recommendations** — 2024
Kirti Bhagat, Kinshuk Vasisht, *Danish Pruthi*

- Quantified geographical disparities that surface in real-world applications for widely deployed language models, focusing on travel recommendations and story generation.
- Published in *Findings of NAACL 2025*:
  https://aclanthology.org/2025.findings-naacl.262

Infusing Knowledge into Language Models with Contextual Prompts — 2023
Kinshuk Vasisht, *Balaji Ganesan, Vikas Kumar, Vasudha Bhatnagar*

- Infused knowledge in language models by using sentences retrieved from a knowledge-rich corpus during fine-tuning, alleviating the need for structured knowledge sources.
- Major Dissertation for M.Sc. Computer Science at University of Delhi, in collaboration with **IBM**, as part of the Global Remote Mentoring program.
- Published in *Proceedings of ICON 2023*: https://aclanthology.org/2023.icon-1.65

EXPERIENCE

Internship @ Google DeepMind India, Bengaluru — Jun-Aug 2025
Host: Vihari Piratla

- Interned as a Student Researcher at Google DeepMind India, focusing on improving multilingual evaluations for foundational models such as Gemini.

PROJECTS

Assignment Autograding Utility - autoval — Feb 2022

- Unittest-style auto-grading utility for student assignments.
- Developed for evaluating student submissions for the course DS-207: Introduction to NLP at the Indian Institute of Science.
- Greatly simplified evaluation, leading to continued use for the course.

- Project repository: https://github.com/kinshuk-h/autoval

Paragraph Curation for Legal Text Analytics   Jul–Dec 2022
- Curated a dataset of paragraphs extracted from judgments scraped from the websites of Indian Courts, intended for building models for legal text analytics.
- Minor Dissertation for M.Sc. Computer Science at University of Delhi, under *Prof. Vasudha Bhatnagar* in collaboration with the Faculty of Law.
- Project repository: https://github.com/kinshuk-h/LT-Crawler

Filesystem Operations - fsop   Feb 2022
- C++ project for demonstrating filesystem operations using system calls.
- Includes a self-written implementation of an argument parser.
- Project repository: https://github.com/kinshuk-h/fsop

MorForm   2019
- Android application using OpenCV for form management: scan images as PDF forms and maintain data for identified fields.
- Project repository: https://bitbucket.org/kinshuk-h/morform

TEACHING EXPERIENCE

Teaching Assistant, Indian Institute of Science, Bengaluru, India   Jan–Apr 2024
Supported the DS-207: Introduction to NLP course by conducting tutorial sessions, grading assignments, and providing one-on-one assistance to students, enhancing their understanding of NLP concepts and applications. Also developed an automatic evaluation utility for grading assignments for the course: https://github.com/kinshuk-h/autoval

Teaching Assistant, Indian Institute of Science, Bengaluru, India   Aug–Dec 2024
Assisted in the delivery of the DS-307: Ethics in AI course, facilitating discussions on ethical considerations in AI development and implementation.

ACCOLADES & EXTRA-CURRICULARS

Junior Research Fellowship   Dec 2022
Cleared UGC-NET with JRF Fellowship, awarded to the top 10% of applicants which clear the exam.   Score: 206/300

DataThon - IndoML 2022, IIT Gandhinagar
Developed a model for document type classification from an image-only dataset (RVL-CDIP) using BERT over OCR-recognized text, with the use of coarse region information to improve accuracy. Ranked 4th amongst 106 teams.

SKILLS

Languages: C, C++, Python, Java, JavaScript, Bash, SQL, LaTeX.
Frameworks & Libraries: PyTorch, TensorFlow, `transformers`

Relevant Courses: Introduction to Causality Models, Stochastic Models and Applications, Topics in Artificial Intelligence, Machine Learning, Deep Learning, Data Mining