

Shashank Gupta

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| CONTACT | Email: shashank.nlp@gmail.com ; shashankg@allenai.org Homepage: https://shashankgupta.info/ | |
| EDUCATION | University of Illinois at Urbana Champaign M.S., Computer Science Thesis Adviser: Prof. Dan Roth | (Aug'15 - Dec'17) |
| | Birla Institute of Technology and Science, Pilani, India B.E. (Hons.), Computer Science | (Aug'08 - June'12) |
| INDUSTRIAL EXPERIENCE | <ul style="list-style-type: none">• Applied Scientist: Allen Institute for AI (AI2), Seattle, WA <i>Themes: AI for Scientific Discovery, Multi-hop-Reasoning; LLM self-verification; Biases in LLM</i>• Applied Scientist: Microsoft AI, Redmond, WA <i>Themes: Multi-Task Learning; Mixture-of-Experts; Efficient Fine-tuning; Dialogue Systems; Domain Adaptation</i>• Research Assistant: Yahoo Labs, India <i>Themes: ML for Display Ad optimization; User-Response Prediction</i>• Research Intern: Yahoo R&D, India <i>Themes: ML for Search Ad Optimization; User-Response Prediction</i> | (Oct'22 - Present) (Apr'18 - Sept'22) (June - Dec'12) (Jan - June'12) |
| ACADEMIC RESEARCH EXPERIENCE | Research Assistant: <ul style="list-style-type: none">• UIUC: Cognitive Computation Group <i>Themes: Zero-shot Text Classification; Text Generation; Structured Prediction</i>• Max Planck Institute (MPI), Databases & Info. Sys. Group <i>Themes: Entity Disambiguation; Automated KB Construction</i>• IIT-Bombay: InfoLab <i>Themes: Entity Search & Disambiguation; Distributed Indexing</i> | (Aug'15 - Dec'17) (Aug'14 - April'15) (Jan'13 - June'14) |
| SELECTED PUBLICATIONS | <ol style="list-style-type: none">7. <u>Bias Runs Deep: Implicit Reasoning Biases in Persona-Assigned LLMs.</u> S. Gupta, V. Shrivastava, A. Deshpande, A. Kalyan, P. Clark, A. Sabharwal, T. Khot <i>International Conference on Learning Representations (ICLR), 2024</i> [pdf]6. <u>Self-Refine: Iterative Refinement with Self-Feedback.</u> A. Madaan, N. Tandon, P. Gupta, S. Hallinan, L. Gao, S. Wiegrefe, U. Alon, N. Dziri, S. Prabh-moye, Y. Yang, S. Gupta, B. P. Majumder, K. Hermann, S. Welleck, A. Yazdanbakhsh, P. Clark <i>Conference on Neural Information Processing Systems (NeurIPS), 2023</i> [pdf][code][project]5. <u>Sparsely Activated Mixture-of-Experts are Robust Multi-Task Learners.</u> S. Gupta, S. Mukherjee, K. Subudhi, E. Gonzalez, D. Jose, A. H. Awadallah, J. Gao <i>ArXiv, 2022</i> [pdf]4. <u>Knowledge Infused Decoding.</u> R. Liu, G. Zheng, S. Gupta, R. Gaonkar, C. Gao, S. Vosoughi, M. Shokouhi, and A.H. Awadallah <i>International Conference on Learning Representations (ICLR), 2022</i> [code][pdf]3. <u>Exploring Low-Cost Transformer Model Compression for Large-Scale Commercial Reply Suggestions.</u> V. Shrivastava*, R. Gaonkar*, S. Gupta*, A. Jha *Equal Contribution <i>Microsoft Journal of Applied Research (MSJar), 2021</i> [pdf]2. <u>CogCompNLP: Your Swiss Army Knife for NLP</u> D. Khashabi, M. Sammons, B. Zhou, T. Redman, C. Christodoulopoulos, V. Srikumar, N. Rizzolo, L. Ratinov, G. Luo, Q. Do, C. T. Tsai, S. Roy, S. Mayhew, Z. Feng, J. Wieting, X. Yu, Y. Song, S. Gupta, S. Upadhyay, N. Arivazhagan, Q. Ning, S. Ling, D. Roth <i>International Conference on Language Resources and Evaluation (LREC), 2018</i> [code][pdf] | |

1. Web-scale Entity Annotation Using MapReduce

S. Gupta, V. Chandramouli, S. Chakrabarti

International Conference on High Performance Computing (HiPC), 2013

[\[project\]](#)[\[pdf\]](#)

TEACHING
EXPERIENCE

Teaching Assistant:

- **UIUC:** Machine Learning, CS446 *(Aug - Dec'16)*
- **IIT-Bombay:** Web Search and Mining, CS635 *(July - Nov'13)*
- **BITS-Pilani:** Operating Systems, CS C372 *(Aug - Dec'11)*

TECHNICAL
SKILLS

Languages: *Proficient:* Python | *Intermediate:* Java | *Basic:* C++, HTML/CSS, JavaScript

Toolkits: PyTorch, Tensorflow, HuggingFace, AzureML, Hadoop, CogComp-NLP

REFERENCES

Peter Clark, *Senior Research Manager, AI2* | peterc@allenai.org

Milad Shokouhi, *Partner Applied Scientist, Microsoft AI* | milads@microsoft.com

Ahmed H. Awadallah, *S. Principal Research Manager, MSR* | hassanam@microsoft.com

Dan Roth, *Distinguished Professor, UPenn* | danroth@seas.upenn.edu

Soumen Chakrabarti, *Professor, IIT-Bombay* | soumen@cse.iitb.ac.in