Akshita Bhagia

https://akshitab.github.io

Email : akshita23bhagia@gmail.com

Natural Language Processing, Machine Learning, Deep Learning

EXPERIENCE

- **Allen Institute for Artificial Intelligence (AI2)** Seattle, WA
  Senior Research Engineer *Jul 2021 - Present*
  Research Engineer 2 *Jul 2020 - Jun 2021*
  Academic R&D in natural language processing (NLP). See list below for publications.

  - **Open Language Model (OLMo)**: Core contributions in dataset creation, model training, evaluation, and inference.
  - **Open-source libraries**: OLMo , ai2-olmo-eval , wimbd , ai2-catwalk , allennlp , ai2-tango , ai2-tailor
  - **Datasets**: PALOMA , DOLMa , WMT22 African , No Language Left Behind (NLLB)

- **Cerebellum Capital** San Francisco, CA
  Machine Learning Intern *May 2019 - Aug 2019*

  - Adapted state-of-the-art deep learning models for financial time-series forecasting using Keras and Tensorflow.

- **InFoCusp** Ahmedabad, India
  Lead Platform Development Engineer *Feb 2018 - Jun 2018*
  Research Programmer *Jul 2015 - Jan 2018*

  - Engineered the core infrastructure of a data science platform used for R&D as well as production of financial models.

EDUCATION

- **University of Washington** Seattle, WA
  Non-degree course enrollment (NLP for Cultural Analytics); GPA: 4.00/4.00 *Jan 2023 - March 2023*

- **University of Massachusetts, Amherst** Amherst, MA
  Master of Science in Computer Science; GPA: 4.00/4.00 *Sep 2018 – May 2020*

- **Dhirubhai Ambani Institute of Information and Communication Technology** Gandhinagar, India
  Bachelor of Technology in Information and Communication Technology; GPA: 8.95/10 *Jul 2011 – May 2015*

RELEVANT COURSES

NLP for Cultural Analytics, Machine Learning, Neural Networks, Deep Learning for NLP, Systems for Data Science, Advanced Algorithms

PUBLICATIONS

[†] denotes core contributors

- Yanai Elazar, **Akshita Bhagia**, Ian Magnusson, Abhilasha Ravichander, Dustin Schwenk, Alane Suhr, Pete Walsh, and others. What's In My Big Data? *ICLR **Spotlight*** (2024).

- Dirk Groeneveld, Iz Beltagy, Pete Walsh, **Akshita Bhagia**, Rodney Kinney, Oyvind Tafjord, A. Jha, and others. OLMo: Accelerating the Science of Language Models. *In submission* (2024).

- Luca Soldaini[†], Rodney Kinney[†], **Akshita Bhagia**[†], Dustin Schwenk[†], David Atkinson, Russell Authur, Ben Bogin, and others. Dolma: an Open Corpus of Three Trillion Tokens for Language Model Pretraining Research. *In submission* (2024).

- Dirk Groeneveld, Anas Awadalla, Iz Beltagy, **Akshita Bhagia**, Ian Magnusson, Hao Peng, Oyvind Tafjord, Pete Walsh, Kyle Richardson, and Jesse Dodge. Catwalk: A Unified Language Model Evaluation Framework for Many Datasets. *arXiv preprint* (2023).

- Hamish Ivison, **Akshita Bhagia**, Yizhong Wang, Hannaneh Hajishirzi, and Matthew Peters. HINT: Hypernetwork Instruction Tuning for Efficient Zero- and Few-Shot Generalisation. *ACL* (2023).

- Ian Magnusson, **Akshita Bhagia**, Valentin Hofmann, Luca Soldaini, A. Jha, Oyvind Tafjord, Dustin Schwenk, and others. Paloma: A Benchmark for Evaluating Language Model Fit. *In submission* (2023).

- Kyle Richardson, Ian Magnusson, Oyvind Tafjord, **Akshita Bhagia**, Iz Beltagy, Arman Cohan, Pradeep Dasigi, and others. Robust Tooling and New Resources for Large Language Model Evaluation via Catwalk (extended abstract). *GEM Workshop, EMNLP* (2023).

- Shruti Palaskar, **Akshita Bhagia**, Yonatan Bisk, Florian Metze, Alan W. Black, and Ana Marasović. On Advances in Text Generation from Images Beyond Captioning: A Case Study in Self-Rationalization. *Findings of EMNLP* (2022).

- Zhaofeng Wu, Robert L. Logan IV, Pete Walsh, **Akshita Bhagia**, Dirk Groeneveld, Sameer Singh, and Iz Beltagy. Continued Pretraining for Better Zero- and Few-Shot Promptability. *EMNLP* (2022).

ACADEMIC SERVICE AND OUTREACH

- **Reviewer** for ACL-ARR (February, 2024).

- **Reviewer** for LREC-COLING (2024).

- **Co-organizer** for the 2022 WMT Shared Task on Large Scale Machine Translation Evaluation for African Languages.

- **Co-organizer** for AllenNLP Hacks 2021 hackathon for minoritized communities.

- **Master's chair** for the graduate chapter of UMass Amherst CSWomen (Feb 2019 - May 2020); handled monthly travel grants. The organization was awarded a Women for UMass grant towards travel expenses for graduate students.

- **Grader** for Programming with Data Structures (Fall 2018), Neural Networks (Fall 2019).

- **Student Representative** of the Gender Cell at DA-IICT (2014-2015).

TALKS AND PANELS

- Presenter on the Databricks webinar for the OLMo project (March 2024).

- Interviewed by Sam Charrington on the TWiML podcast about the OLMo project (March 2024).

- Workshop on the AllenNLP library at AllenNLP Hacks 2021.

- Workshop on Running experiments on Google Colaboratory at AllenNLP Hacks 2021.

- Panelist on the GHC Information Panel at UMass CICS in Spring 2020.

AWARDS

- Recipient of the AnitaB.org Grace Hopper Conference Scholarship 2019.

MENTORING

- **Pranjali Basmatkar**, Research Engineering Intern @ AI2 (Summer 2023).

- **Sunitha Selvan**, Research Engineering Intern @ AI2 (Summer 2022).

- **Arjun Subramonian**, Research Engineering Intern @ AI2 - **AI2 Intern of the Year** (Summer 2021).

- **Subhodeep Maji**, Research Programmer Intern @ InFoCusp (Spring 2017).