

Maharshi Gor

NLP RESEARCHER · ENGINEER

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Skill Set

Research Interests: NLP, Question Answering, Retrievers, Multi-linguality, Deep Learning, Representation Learning
Tools and Technologies: Python, Java, C/C++, R, Matlab, JavaScript, SQL, Redis, Neo4j, DGraph
Frameworks: Huggingface, PyTorch, JAX, LangChain, DSPy, T5X, TensorFlow, Keras, Apache Beam, Django, Spring

Education

University of Maryland

M.S / PH.D. IN COMPUTER SCIENCE — NATURAL LANGUAGE UNDERSTANDING | GPA: 4.0/4.0

ADVISORS: PROF. TIANYI ZHOU AND PROF. JORDAN BOYD-GRABER

College Park, MD, US

Fall 2021 - Fall 2026

Visvesvaraya National Institute of Technology (VNIT)

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Nagpur, India

July 2012 - May 2016

Publications and Preprints

Yoo Yeon Sung, **Maharshi Gor**, Eve Fleisig, Ishani Mondal, Jordan Boyd-Graber “Is your benchmark truly adversarial? AdvScore: Evaluating Human-Grounded Adversarialness”, *North American Chapter of the Association for Computational Linguistics (NAACL), 2025* [arXiv]
[Outstanding paper award]

Maharshi Gor, Tianyi Zhou, Hal Daumé III, Jordan Boyd-Graber “Do great minds think alike? Investigating Human-AI Complementarity in Question Answering with CAIMIRA”, *Empirical Methods in Natural Language Processing (EMNLP), 2024* [arXiv]

Gaurang Sriramanan, **Maharshi Gor**, Soheil Feizi, “Toward Efficient Robust Training against Union of L_p Threat Models”, *Neural Information Processing Systems (NeurIPS), 2022* [pdf] [Oral at AdvML FRONTIERS, ICML 2022]

Maharshi Gor, Kellie Webster, Jordan Boyd-Graber, “Toward Deconfounding the Influence of Entity Demographics for Question Answering Accuracy”, *Empirical Methods in Natural Language Processing (EMNLP), 2021* [arXiv]

Julian Martin Eisenschlos, **Maharshi Gor**, Thomas Müller, William W. Cohen, “MATE: Multi-view Attention for Table Transformer Efficiency”, *Empirical Methods in Natural Language Processing (EMNLP), 2021* [arXiv] [Oral]

Jogendra Nath Kundu*, **Maharshi Gor***, Dakshit Agrawal, R. Venkatesh Babu, “GAN-Tree: An Incrementally Learned Hierarchical Generative Framework for Multi-Modal Data Distributions”, *IEEE International Conference on Computer Vision (ICCV), 2019* [arXiv]

Jogendra Nath Kundu*, **Maharshi Gor***, R. Venkatesh Babu, “BiHMP GAN: Bidirectional 3D Human Motion Prediction GAN”, *33rd AAAI Conference on Artificial Intelligence, 2019* [arXiv] [Spotlight]

Jogendra Nath Kundu*, **Maharshi Gor***, Phani Krishna Uppala, R. Venkatesh Babu, “Unsupervised Feature Learning of Action Sequences as Trajectories in Pose Manifold”, *IEEE Winter Conf. on Applications of Computer Vision (WACV), 2019* [arXiv] [Oral]

* equal contribution - names listed alphabetically

Research/Work Experience

Contextual.ai

RESEARCH INTERN

Mountain View, CA, United States

May. 2024 - Aug. 2024

Reasoning Over Retrievers: Can we compress multiple reasoning step before/after retriever into a singler LLM-based retriever?

Cohere

ML RESEARCH INTERN | MENTORS: PATRICK LEWIS

Remote, MD, United States

May. 2023 - Aug. 2023

Investigation into error modes of citation and claim generation quality for Retrieval Augmented Generative (RAG) models.

X, the Moonshot Factory / Google Labs

STUDENT RESEARCHER | MENTORS: MICHELE CATASTA, AAKANKSHA CHOWDHERY, CHRISTIAN SZEGEDY

Mountain View, CA, United States

May. 2022 - Dec. 2022

Semi-confidential work on long-context document understanding and Code synthesis using external memory based LLMs.

Google Research

AI RESEARCHER, NLP | MENTORS: PROF. JORDAN BOYD-GRABER, PROF. WILLIAM COHEN

New York, United States

Aug. 2019 - Aug. 2021


Model Analysis, Interpretability and development of memory-efficient methods for Question Answering

Video Analytics Lab

VISITING RESEARCHER | ADVISOR: PROF. R VENKATESH BABU

Bengaluru, India

Jan. 2018- Apr. 2019

- **GAN-Tree: An Incrementally Learned Hierarchical Generative Framework for Multi-Modal Data Distributions** [ICCV 2019] 
 - A hierarchical tree framework for Generative Adversarial Networks (GANs) for learning multimodal disjoint data distributions supporting incremental learning of data samples from a new distribution and maintaining persistency across all versions
- **BiHMP GAN: Bidirectional 3D Human Motion Prediction GAN** [AAAI 2019, Spotlight]
 - A generative approach for 3D human skeleton sequences using a novel Discriminator architecture, enabling content loss in a probabilistic framework
 - Shows superiority, both in terms of qualitative and quantitative measures, over previously available state of the art methods for both long-term human motion generation and short-term forecastings.
- **Unsupervised Feature Learning of Action Sequences as Trajectories in Pose Manifold** [WACV 2019, Oral]
 - Modelled sequences of the pose embeddings as a trajectory in the pose manifold.
 - Achieved competitive state-of-the-art results for action recognition task with minimal supervision on labeled information while comparing against previous fully-supervised deep learning approaches.

Amazon

SOFTWARE ENGINEER | AMAZON ANDROID APPSTORE

Bengaluru, India

Aug. 2017 - Dec. 2017

- Contributed to re-architecture of the back-end services for App Submission and Catalog Ingestion.
- Contributed to Database migration from Oracle to Postgres

Trilogy Innovations (formerly CodeNation Innovation Labs)

SOFTWARE / INNOVATION ENGINEER

Bengaluru, India

July. 2016 - July. 2017

- **Semantics Addition and Relevance Improvement of a Search Engine of an intra-org social network using a Knowledge Graph.**
 - Achieved Word Sense Disambiguation through Lexical and Topological Query Enrichment using Community Clustering on KG.
 - Reduced the TP90 response time from 8s to 500 ms
- **Fuzzy Classification System for source code commits of projects on Version Control Systems.**
 - Developed a commit classification system over a VCS and automated it as service for continuous provision of comprehensive details of the kind of contribution made by a developer on/across project(s)
- **A Gamification Framework around agile processes for achieving enhanced productivity of software developers.**
 - Product-designer and primary architect of the core framework.
 - Created 20 new code quality metrics for measurement of various categories of developer productivity.
 - Introduced, developed, and shipped the prototype to the client in 6 months period.

Honors & Awards

- 2021 **Student Conference Travel Award by EMNLP**, EMNLP 2021
- 2021 **Dean's Fellowship and Chair's Fellowship Award**, University of Maryland, College Park
- 2019 **Microsoft Research Travel Grant**, AAAI 2019
- 2019 **ACM India-IARCS Travel Grant**, AAAI 2019
- 2018 **Country Rank (United States) 60, across 100,000 active users**, CodeChef Rankings
- 2013–16 **Top 60 every year, across over 6000+ teams**, ACM ICPC (International Collegiate Programming Contest) on-site Asia Regionals
- 2013–15 **Consistent 1st prize Winner**, Freak-O-Matix, the open mathematics Olympiad at VNIT (Undergrad)
- 2009-11 **Country Rank (India) 22, State Rank in top 5**, Indian National Mathematics Olympiad (INMO)

[Profile Link](#)

Service

- 2025 **Mentor, Student Research Workshop (SRW)**, ACL 2025
- 2024 **Outstanding Reviewer**, EMNLP 2024
- 2024 **Reviewer**, ACL ARR 2024 (Feb, April, June, October)
- 2021 **Program Committee Member**, Workshops in **ACL 2022, NAACL 2022**
- 2020-21 **Reviewer**, ICLR 2022, NeurIPS 2021, ACL 2021, EMNLP 2020, ICML 2020, ACL 2020
- 2018 **Problem Setter**, MindSpark 18 Codeathon, organized by College of Engineering, Pune on Codechef.
- 2017 **Problem Setter**, [CodeAgon 2017](#) - The All India Hiring Challenge for Codenation Solutions.

Pune, India
Bengaluru, India