Wasi Uddin Ahmad

Contact Information

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About

I am a senior research scientist at NVIDIA. My current research focuses on large code language models for competitive programming, understanding and validating synthetic data, fine-tuning, prompting, in-context learning, and instruction-tuning for specialization.

Professional Experience

Senior Research Scientist, Conversational AI Research [05/2024 – Present]
NVIDIA, Santa Clara, California

Applied Scientist, Amazon Q Developer [10/2021 – 05/2024]
AWS AI Labs, Santa Clara, California

Research Intern, Language and Translation Technology [06/2020 – 09/2020]
Meta AI, Menlo Park, California

Research Intern, Ad Quality Science [06/2019 – 09/2019]
Yahoo Research, Sunnyvale, California

Research Intern, Business Applications Group [06/2018 – 09/2018]
Microsoft AI and Research, Redmond, Washington

Research Intern, Wireless Fraud Prevention [06/2016 – 08/2016]
Walmart Labs, Reston, Virginia

Lecturer, Department of Computer Science & Engineering [11/2013 – 08/2015]
Ahsanullah University of Science & Technology, Dhaka, Bangladesh

Software Engineer, VoIP Solution in Android [02/2013 – 10/2013]
REVE Systems, Dhaka, Bangladesh

Selected Publications
[Google Scholar]

Wu, D., **Ahmad, W. U.**, Zhang, D., Ramanathan, M.K., & Ma, X. (2024). Repoformer: Selective Retrieval for Repository-Level Code Completion. In Proceedings of ICML.

Zhang, D.*, **Ahmad, W. U.***, Tan, M., Ding, H., Nallapati, R., Roth, D., Ma, X., & Xiang, B. (2024). Code Representation Learning At Scale. In Proceedings of ICLR.

Ding, Y.*, Wang, Z.*, **Ahmad, W. U.***, Ding, H., Tan, M., Jain, N., Ramanathan, M. K., Nallapati, R., Bhatia, P., Roth, D., & Xiang, B. (2023). CrossCodeEval: A Diverse and Multilingual Benchmark for Cross-File Code Completion. In Proceedings of the NeuRIPS Track on Datasets and Benchmarks.

Jain, N.*, Zhang, D.*, **Ahmad, W. U.***, Wang, Z., Feng, N., & Others. (2023). ContraCLM: Contrastive Learning For Causal Language Model. In Proceedings of the 61st Annual Meeting of the ACL.

Ahmad, W. U.*, Chakraborty, S.*, Ray, B., & Chang, K. W. (2021). Unified Pre-training for Program Understanding and Generation. In Proceedings of the 2021 Annual Conference of the NAACL-HLT.

Ahmad, W. U., Peng, N., & Chang, K. W. (2021). GATE: Graph Attention Transformer Encoder for Cross-lingual Relation and Event Extraction. In Proceedings of the 35th AAAI.

Education

Ph.D. in **Computer Science** [2017 – 2021]
University of California, Los Angeles
CGPA: 3.78 on a scale of 4.00
Advisor: Dr. Kai-Wei Chang

Master of **Computer Science** [2015 – 17]
University of Virginia
CGPA: 4.00 on a scale of 4.00

B.Sc. in **Computer Science and Engineering** [2008 – 13]
Bangladesh University of Engineering and Technology
CGPA: 3.81 on a scale of 4.00

Professional Services

Senior Area Chair/Area Chair/Senior Program Committee/Program Committee/Reviewer

2024: NeurIPS, CIKM, COLM, ACL, ICML, IJCAI, SIGIR, ICLR, AAAI, ARR, LREC-COLING, NAACL

2023: NeurIPS, EMNLP, AAAI, ICML, SIGIR, ACL, IJCAI, ICLR, ARR, EACL

2022: NeurIPS, EMNLP, ICML, SIGIR, IJCAI, KDD, ARR, LREC, AAAI, WSDM, ICLR

2021: NeurIPS, EMNLP, SIGIR, ACL-IJCNLP, NAACL, IJCAI, EACL, AAAI

2020: EMNLP, ICML, IJCAI, AAAI, LREC