

Yash Saxena

✉ ysaxena1@umbc.edu | 🏠 <https://yashsaxena21.github.io/Portfolio/> | 💻 <https://github.com/YashSaxena21> | 🌐 <https://www.linkedin.com/in/yash-saxena-a18b251bb/> | 📄 <https://scholar.google.com/citations?user=5c80BFkAAAAJhl=en>

Education

University of Maryland, Baltimore County

Baltimore, Maryland, USA

PHD, COMPUTER SCIENCE

Jan 2025 - ongoing

- Research Assistant

Galgotias University

Greater Noida, Uttar Pradesh, India

B.TECH, COMPUTER SCIENCE AND ENGINEERING WITH SPECIALIZATION IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Nov 2020 - May 2024

- CGPA: 8.75/10

Bishop Conrad Sr. Sec. School (CBSE board)

Bareilly, Uttar Pradesh, India

SENIOR SECONDARY (XII)

May 2018 - May 2019

- Percentage: 83.20%

Professional Experience

Knowledge Infused AI And Inference Lab, University Of Maryland Baltimore County

Baltimore, MD, USA

REMOTE RESEARCH INTERN

Feb 2024 - Present

- Fine-tuned Llama-3-70b using DPO algorithm as well as built RAG pipeline
- Designed the experiments for the ongoing research
- Working with Slurm to use the UMBC's GPU cluster

Stareout Games

Remote

AI ENGINEER INTERN

Jan 2024 - Mar 2024

- Built a pipeline incorporating Large Language and Image Generation Model to bring game ideas to life
- Fine-Tuned Large Language and Image Generation Models
- Worked with python libraries like Langchain, Ntscraper, Streamlit , and many more

Artificial Intelligence Institute, University of South Carolina (AIISC)

Columbia, SC, USA

REMOTE RESEARCH INTERN

Aug 2023 - present

- Working on LLMs using libraries like Langchain and LLAMA Index
- Built a web scraper to construct the main dataset of the ongoing research

Celebal Technologies

Jaipur, Rajasthan, India

REMOTE DATA SCIENCE INTERN

May 2023 - July 2023

- Worked with large datasets, performed data pre-processing and extracted relevant features tailored to specific use cases
- Worked on NLP (Natural Language Processing) problems, built client specific applications using libraries like spacy

- Developed a Python-based Web app using spacy and streamlit libraries to extract text from resumes
- Created a web app that allowed users to filter resumes according to their specific requirements

Publications _____

PUBLISHED/ACCEPTED

Yash Saxena, Sarthak Chopra, Arunendra Mani Tripathi. "Evaluating Consistency and Reasoning Capabilities of Large Language Models". 2024 Second International Conference on Data Science and Information System (ICDSIS), Hassan, India, 2024, pp. 1-5

Seyedreza Mohseni, Seyedali Mohammadi, Deepa Tilwani, **Yash Saxena**, Gerald Ketu Ndawula, Sriram Vema, Edward Raff, Manas Gaur . "Can LLMs Obfuscate Code? A Systematic Analysis of Large Language Models into Assembly Code Obfuscation". Proceedings of the AAAI Conference on Artificial Intelligence, 39(23), 24893-24901.

Yash Saxena, Aman Kumar Mishra, Daksh Arora, Runumi Devi. 2023. "Emotion Based Mental Health Classifier for NCR Based Engineering Students". IEEE 6th International Conference on Contemporary Computing and Informatics (IC3I), Page(s):285-290.

UNDER REVIEW

Yash Saxena, Deepa Tilwani, Ankur Padia, Ali Mohammadi, Edward Raff, Amit Sheth, Srinivasan Parthasarathy, Manas Gaur. "Attribution in Scientific Literature: New Benchmark and Methods". (Communicated to KDD 2025)

IN PREP

Yash Saxena, Ankur Padia, Mandar Chaudhary, Kalpa Gunaratna, Srinivasan Parthasarathy, Manas Gaur. "Ranking Free RAG: Replacing Reranking with Selection in RAG for Sensitive Domains"

Awards, Fellowships, & Grants _____

2022	UNESCO India Africa Hackathon Winner , Ministry of Education (MoE), India	\$ 3,500
2022	Led a team of 5 members in the Grand Finale of Smart India Hackathon and won the event , Ministry of Education (MoE), India	\$ 1,200
2023	Led a team of 5 members in the Grand Finale of Smart India Hackathon , Ministry of Education (MoE), India	N/A