

# Yash Saxena

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## Education

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### University of Maryland, Baltimore County

Baltimore, Maryland, USA

PHD, COMPUTER SCIENCE

Jan 2025 - ongoing

- Research Assistant | GPA: 4.0/4.0

### 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

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

Baltimore, MD, USA

REMOTE RESEARCH INTERN

Aug 2024 - Jan 2025

- 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 - Jul 2024

- 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**, Ankur Padia, Mandar Chaudhary, Kalpa Gunaratna, Srinivasan Parthasarathy, Manas Gaur. "Ranking Free RAG: Replacing Reranking with Selection in RAG for Sensitive Domains". (Communicated to NeurIPS 2025)

IN PREP

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

Awards, Fellowships, & Grants \_\_\_\_\_

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