

SABBER AHAMED, PH.D

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[Github](#) | [LinkedIn](#) | [Google Scholar](#)

Summary

Machine Learning Scientist with 7+ years of experience, specializing in Generative AI, Large Language Models, and Computer Vision. Proven track record in enhancing innovation and revenue across healthcare, automotive area.

Experience

Lead Data Scientist, Health Pilot

April 2024 - present

- Lead the development of a custom Medicare plan enrollment chat system at HealthPilot, fine-tuning Large Language Models and creating multi-agent architectures to simulate personalized interactions.
- Lead the development of HealthPilot's Medicare recommender system, enhancing decision-making processes for selecting optimal insurance plans.

Senior Data Scientist, Bridgestone

October 2021 - March 2018

- Lead the multimodal project integrating Reinforcement Learning, NLP, and advanced Computer Vision techniques, achieving over \$20M in annual savings through anomaly detection in X-ray tire images.
- Led the development and fine-tuning of LLMs and Computer Vision Diffusion models to enhance manufacturing precision and operational efficiency, contributing to \$25+M in annual savings.

Data Scientist, Asurion

October 2018 - September 2021

- Developed and implemented a state-of-the-art automated fraud detection framework using machine learning resulting in \$25M in savings.
- Played a key role in architecting and optimizing ML systems for fraud pattern recognition, deploying scalable solutions across the enterprise.

Skills

- **Machine Learning:** Specialized in Generative AI and Large Language Models (LLM), with emphasis on fine-tuning these models to control chatbot personality and identity in custom healthcare chat systems.
- **System Architecture and Optimization:** Expert in designing and refining ML architectures, focusing on multi-agent systems that ensure high scalability and performance in chat applications.
- **Programming:** Advanced proficiency in Python, with significant experience in developing and managing AI-driven applications using Node.js and MongoDB, ensuring robust backend support for interactive AI interfaces.
- **Cross-functional Leadership:** Proven track record in leading development teams to innovate and execute complex AI projects, emphasizing the creation of chatbots with distinct and engaging personalities.

Awards

Bridgestone Americas highest award, AI-assisted tire anomaly detection

March, 2024

Data Guru of the year 2023, Nashville Technology Council

February, 2024

Winner in Technology category, Nashville Emerging Leader Awards, Nashville, TN

July, 2023

1st place: Physical and Applied Sciences, 26th Student research forum award, University of Memphis, March, 2014

Selected Publications and Projects

- Ahamed, S., and Uddin, M. M. (2023). Addressing computational challenges in physical system simulations with machine learning. arXiv preprint arXiv:2305.09627.
- Ahamed, S., and Samad, M., 2020. Information mining for COVID-19 research from a large volume of scientific literature using advanced NLP techniques. arXiv preprint arXiv:2004.02085. (Citation: 34)
- Ahamed S. 2018, Text Classification Using CNN, LSTM, and Pre-trained Glove Word Embeddings, Toward data science, Medium (Views: 66K, reads: 36K)

Education

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|---|---------------|
| Ph.D. , Geophysics, University of Memphis | May 2018 |
| Leadership Principles , Harvard Business School Online | December 2020 |
| M.Sc. , Geological Sciences, Jahangirnagar University | July 2011 |
| B.Sc. , Geological Sciences, Jahangirnagar University | July 2010 |