Research Interests & Career Goals

My research focus involves the creation of sophisticated systems that integrate information retrieval with natural language processing and predictive modeling. I am dedicated to advancing Retrieval-Augmented Generation (RAG) frameworks, particularly their implementation within the financial, entertainment, and Web3 sectors to enhance decision-making and smart contract automation. Furthermore, I am committed to utilizing AI to revolutionize electrical and automation engineering, specifically through the development of early fault detection systems and predictive maintenance models designed to minimize industrial downtime and maximize system reliability. My professional trajectory is aimed toward becoming a Lead AI Engineer, where I will architect resilient, high-scale platforms that enable data-centric organizational strategies. I strive to contribute to the frontiers of AI research while engineering tangible tools that solve intricate problems in decentralized finance (DeFi) and intelligent industrial systems. Central to my work is a dedication to ethical AI and model transparency, ensuring that complex technologies remain accessible, responsible, and interpretable for non-technical users. I am driven by the goal of translating advanced AI capabilities into significant real-world impact, bridging the gap between theoretical research and practical applications in both financial engineering and next-generation automation.