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Responsible AI for Enterprises and Critical Systems

Artificial intelligence (AI) has come a long way since its inception, transforming from a futuristic concept into an everyday technology that permeates every aspect of our lives. As these AI-powered applications and platforms become essential tools for individuals and businesses alike, it is of utmost importance that we address the ethical, social, and technical challenges that accompany this progress. This presentation seeks to explore various facets of Responsible AI, including the vulnerabilities of Machine Learning (ML) models, susceptibility to adversarial attacks, and the importance of robust security measures. We will delve into risk-averse methodologies that prioritize safety and reliability, minimizing potential harm and unintended consequences. We shall also examine policy frameworks and strategies adopted by various countries to ensure ethical AI development and deployment, as well as the crucial aspects of data privacy, with techniques and best practices to protect user information and maintain trust in AI systems. Additionally, we will cover approaches to AI model evaluation, uncertainty, and validation; the roles of MLOps and AutoML in fostering efficient, scalable, and responsible AI practices in enterprise settings; and the importance of fairness in AI, addressing challenges in data collection, preprocessing, and model optimization to reduce biases and ensure equitable outcomes. Lastly, we will work to provide insights into explainable AI, ethical AI, AI bias, model interpretability, model governance, data governance, and AI-based upskilling. This also offers practical guidelines on implementing AI fairness, trust, and transparency in an enterprise setting and presents an overview of various interpretability toolkits.

Keywords: Responsible AI, Governance, Ethical, Enterprise

Biography

Mr. Tosin Shobukola is a dynamic tech leader renowned for driving impactful digital transformations. His expertise extends across diverse domains, including Data Analytics, Cybersecurity, Cloud Governance, and Digital Transformation. His global experience encompasses collaboration with top organizations across 25 countries, where I've navigated complex technological landscapes to align solutions with organizational goals, especially in the areas of Data & AI. His passion lies in inspiring change, fostering inclusive workplaces, and sharing insights that propel the ever-evolving tech landscape forward. He is also the founder of Analytics Africa, a Social enterprise set up to help with the growth of knowledge around analytics in Africa.