

About Emmanuel Ekwedike

Long Bio

Emmanuel Ekwedike, Ph.D., is a published researcher, dynamic keynote speaker, and notable consultant with a laudable passion for artificial intelligence (AI) and machine learning (ML) technologies. He is an expert in using AI and ML technologies to provide endless solutions for challenges in cybersecurity, big data analytics, finance, and healthcare. He is proficient in statistics, mathematics, product development, visualization, programming, version control, machine learning, web development, data mining, analytic marketing, A/B testing, and predictive modeling. His friendly personality has further enabled him to bridge the gap between business owners and these advanced tools and concepts.

Born and raised in Nigeria, this driven AI Research Engineer relocated to Queens, NY at 18 years-old, in pursuit of a higher quality tertiary education and more opportunities for a promising future. It was a life-changing move, as most Nigerians with a similar background don't have access to higher education, let alone a full scholarship. Emmanuel is grateful to have found a different path and to have been blessed with enough scholarships and fellowships to achieve his dreams. Life in America has inspired him to broaden his horizons and make meaningful contributions to the world. He plans to leverage his knowledge and resources to create more opportunities for the less fortunate.

After earning a Bachelor's in mathematics from Brooklyn College, he went on to accomplish graduate degrees in Applied Mathematics and Operations Research & Financial Engineering from City College and Princeton University, respectively. More recently, Dr. Ekwedike completed his post-graduate studies at Princeton under the school's Presidential Fellowship, achieving a Ph.D. in Operations Research & Financial Engineering. In the process, he learned a great deal about advanced probabilistic modeling techniques, which are of great value in finance for making optimal decisions under volatile market uncertainty. Additionally, Emmanuel completed his dissertation on solving the resource allocation problem efficiently using the combination of probabilistic modeling and machine learning. He published the 300-page dissertation under the title, *Optimal Decision Making via Stochastic Modeling and Machine Learning: applications to resource allocation problems and sequential decision problems*.

Over the past decade, Emmanuel continued to shape his career through diverse research positions. He has developed statistical methods and parameters for weather forecasting at City College, innovated flexible learning methodologies involving feedback-based tree search algorithms for solving sequential decision problems at Tencent America, created predictive machine learning models for real-world problems and integrated them into application programming interfaces (API) to uncover share actionable insights as a Princeton Ph.D. Fellow, and so much more. In his current role as a Machine Learning Research Scientist at Peraton Labs, he enjoys building scalable gradient-based Trojan detection for AI systems designed for Natural Language Processing (NLP) and computer vision tasks, among other projects.

Dr. Ekwedike has delivered powerful speeches on these topics at sundry institutions and events, from his alma mater, Princeton University, to UC San Diego, Rutgers University, Wayfair, the International Conference on Machine Learning (ICML), and the INFORMS Business Analytics Conference. Additionally, this acclaimed researcher has contributed to peer-reviewed scientific literature.

As an avid learner, Emmanuel makes it a point to maximize his performance and capabilities by staying ahead of emerging developments, trends, and information. He uses his ever-expanding knowledge and skills to help small businesses implement AI and ML technologies to automate operations and drive growth. He also develops ML algorithms for these clients and teaches them how to train these programs themselves. Those he works with rave about his ability to articulate important information from complex research to achieve a basic yet thorough understanding of the content for non-programmers.

Emmanuel's uncanny communication and interpersonal skills, zest for collaboration, impeccable leadership and management, and highly innovative problem-solving abilities are what truly sets him apart from his competitors. He is highly experienced in real-world application of his mastery. Inspired by diversity, he finds valuable lessons in culture-rich, international travel, which inspires him to build useful context around data. Ekwedike firmly believes that our ability to understand people is what brings data to life, creating a global approach to this field of science. He strives to extract meaningfulness from every project he takes on while catering to his clients' needs and delivering a positive impact.

Short Bio

Emmanuel Ekwedike is a published researcher, dynamic keynote speaker, and notable consultant with a laudable passion for artificial intelligence (AI) and machine learning (ML) technologies. He is an expert in using AI and ML technologies to provide endless solutions for challenges in cybersecurity, big data analytics, finance, and healthcare. With a Ph.D. in Operations Research & Financial Engineering from Princeton University, he is vastly experienced in real-world application of his mastery and proficient in statistics, mathematics, product development, visualization, programming, version control, machine learning, web development, data mining, analytic marketing, A/B testing, and predictive modeling.

Emmanuel's uncanny communication and interpersonal skills, zest for collaboration, impeccable leadership and management, and highly innovative problem-solving abilities are what truly sets him apart from his competitors. He has a remarkable gift for steering and collaborating with cross-functional teams. Having overseen multiple projects in a burgeoning entrepreneurial environment, he has emerged as an empowered and adept leader.

Dr. Ekwedike firmly believes that our ability to understand people is what brings data to life, creating a global approach to this field of science. He strives to extract meaningfulness from every project he takes

on while catering to his clients' needs and delivering a positive impact. His friendly personality has further enabled him to bridge the gap between business owners and the advanced tools and concepts that will maximize their potential.