



# EMMANUEL EKWEDIKE

AI Research Scientist and Engineer,  
Published Researcher, World Traveler, Motivational Speaker

**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 nonprogrammers.

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.



# Speaker Topics

## PERSONAL TOPICS:

### 1. THE EMMANUEL STORY: Resilience, Goals, and Motivation

Dr. Emmanuel Ekwedike's life story is a heartening tale of struggle, resilience, tenacity, and success. After migrating to the US at a young age, he managed to achieve the higher education he had always dreamed of without a single student loan. The Artificial Intelligence (AI) and Machine Learning guru shares inspiring personal experiences, thrilling international adventures, and invaluable lessons that have brought him to where he is today.

### 2. How to Become a Leader Right Here, Right Now

No matter what role you may be in currently, you have an opportunity to influence your professional environment and emerge as a leader. It is all about cultivating your ability to recognize opportunities, daring to step outside of your comfort zone, taking the initiative, and perpetually leveling up your potential, expertise, and innovation. Emmanuel presents specific techniques, methods, and foundational concepts for excelling in leadership and maximizing the impact and reach of your influence. You can consider these tools for achieving your dream career.

### 3. How Technology Drives Generational Wealth

While we all define "financial freedom" differently, plentiful advantages are unlocked when you identify what it means to you. In 2021, the average annual salary for American tech professionals reached a record high of nearly \$105,000 and is expected to continue increasing. A career in this field could be the difference between merely surviving and truly thriving as you enjoy the perks of financial liberation and generational wealth accumulation. Dr. Ekwedike shares an encouraging account of how his professional pursuits and victories in artificial intelligence and machine learning technologies have powered his journey to financial freedom.

### 4. My Zero-Debt Education Strategy

The STEM career path often requires extensive education. For Dr. Ekwedike, it was an eleven-year journey through four college degrees that he managed to accomplish without accruing any debt. Now, he shares his personal strategy for achieving debt-free education. He shares tips for securing scholarships and fellowships and developing effective communication skills for navigating institutions. Dr. Ekwedike also offers essential guidance on procuring mentorships, improving leadership skills, networking, and acquiring practical experience to position yourself for game-changing opportunities on academic and professional levels.

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## INDUSTRY TOPICS:

### 1. The Power of Artificial Intelligence (AI)

Artificial intelligence (AI) continues to be one of the fastest-growing and most complex fields in the tech industry. Although it is not without its challenges, astonishing advancements continue to redefine its limits. As our understanding of AI and its potential expands, we consistently discover new and diversified applications that can enhance real-world settings. Dr. Ekwedike uses his fourteen years of scientific expertise to break down the ins and outs of artificial intelligence, discuss its critical role in the digital world, and share how this vital tool can be leveraged for good.



## 2. The Future of Business According to AI

The impact artificial intelligence has had on business is undeniable. With infinite solutions for modern challenges, this technology is actively shaping the future of commerce both within and beyond the digital world. Emmanuel explains what this future looks like, as well as which fields will be most affected and how. His presentation wouldn't be complete without exploring the measures and strategies ventures can employ to stay relevant in this rapidly evolving landscape.

## 3. Are Human Employees Becoming Obsolete in the Age of Automation?

Adaptability and innovation are imperative in surviving and navigating any impending change, such as what we're seeing as the new digital world unfolds around us. Despite the expansive and ongoing shift to full automation, you'll find yourself in high demand amidst this burgeoning economy if you have the right skills. This new frontier in technology belongs to those willing to redefine the term "career". Dr. Ekwedike's unique insight offers guidance for personal optimization in this flourishing industry and fuels the audience's innovative curiosity about the future.

## 4. AI and the Fourth Industrial Revolution

Amidst complex and rapid evolution, few technologies are more disruptive than the progress-booster that is artificial intelligence. Experts predict it will be the catalyst for the "Fourth Industrial Revolution". The time to get involved is now. Emmanuel dives into the disruptive potential of emerging technologies and presents many inherent challenges that will need solutions. This translates to endless opportunities, which this clever professional enthusiastically reviews for his audience.

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### ADDITIONAL TOPICS:

1. Why Authenticity Should Be Your Best Foot Forward
2. The Relationship Between Travel & Problem-Solving
3. Quantum Growth: The Life-Changing Power of Compatible Mentors & Sponsors
4. A Practical Guide to Breaking into the Tech Industry
5. Everything You Need to Know to Scale Your Career
6. Data-Informed Decision-Making: The One Skill You Need to Secure Your Future
7. The Emerging Technologies Takeover
8. The Art of Spinning Data into a Captivating Story
9. Maximizing Your Innovation for a Successful Future in Tech
10. Under Pressure: Effective Problem-Solving Amidst Looming Uncertainty
11. AI & Productivity: How Automation is Transforming the Digital World





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