

Zeeshan- ul- Hassan Usmani, born May 29, 1978 in Sukkur, Pakistan, is a renowned data scientist, computer scientist, writer, scholar, and social entrepreneur.

Education & Academic Achievements

- Completed schooling at Modern High School, Sukkur; intermediate at S.M.A. College, Sukkur; bachelor's from Shah Abdul Latif University, Khairpur; master's from PIMSAT, Karachi
- Earned an MS and PhD in Computer Science from Florida Institute of Technology (FIT), USA
- Awarded Fulbright Scholar and prestigious Eisenhower Fellowship

Professional Career & Contributions

- Early academic roles included Assistant Professor at Ghulam Ishaq Khan Institute.
- Served in roles at Citi Bank (New York), Discover Financial (Illinois), Fulbright Academy (Maine)
- Founded **PredictifyMe**, a predictive analytics firm addressing issues like suicide bombings, education, and social welfare
- Developed “**BlastSim**”, a simulation tool to model blast waves and casualty outcomes credited with aiding forensic and emergency response
- Created **PakistanBodyCount.org**, a platform tracking bombings and drone strikes in Pakistan
- His work has been featured in global media: WSJ, CNN, NPR, Wired, MIT Tech Review, The Economist, Florida Today among others

Research & Thought Leadership

- Published extensively: dozens of research papers and several books on emerging technology and data science; author on Amazon (author ID B002BLSE7W)

- Consulted globally: Worked on AI/data projects for the UN, Farmer's Insurance, Walmart, Best Buy, Planned Parenthood
- Known for transformative applications of big data from forecasting supermarket behaviors to reenacting blast scenarios and modeling human behavior

Innovation & Impact

- Through PredictifyMe's **Soothsayer** platform, achieved ~72% accuracy predicting suicide bombings days ahead using multifaceted indicators (weather, events, holidays, explosive availability)
- His methodologies have informed public policy, school security, emergency triage, and forensic strategies across Pakistan and abroad
- Presented at global forums: e.g., seminars at IBA Karachi, NC's Research Triangle Park (RTP), and guest speaker in the U.S.

Personal Life & Interests

- Married to Binish Bhagwanee; father of three sons: Abdul Rehman, Abdul Batin, and Abdul Aziz
- A self-described "Shameless Idealist": passionate about coding for social good, enjoys reading poetry, history, writing books, traveling to countries like USA, UK, Canada, Bangladesh, China, Malaysia, UAE, Saudi Arabia, and sometimes just sitting in silence

Online Presence

- Maintains a personal website featuring writings, tech commentary, and travel reflections
- Active on LinkedIn (VP/Director roles in AI/data governance) with a significant following

- Kaggle profile: AI & data science consultant for global organizations

Summary

Zeeshan- ul- Hassan Usmani, PhD, is a visionary Pakistani American data scientist and scholar. From modeling supermarket behavior to simulating bomb blasts and predicting terrorist attacks, his work bridges academia and real-world impact. A Fulbright and Eisenhower alumnus, prolific author, entrepreneur, and devoted family man he continues to shape fields from AI governance to social analytics.

Here's a detailed overview of **Zeeshan- ul- Hassan Usmani's** education, professional journey, blog contributions, and notable publications based on official sources and his own website

Education & Experience

- **Academic Degrees:**
 - Ph.D. in Computer Science from Florida Institute of Technology (FIT), with doctoral research on predictive modeling of suicide bombings
 - - Prior MS degree (presumed in a CS-related discipline).
- **Career Roles:**
 - Former Assistant Professor at Ghulam Ishaq Khan Institute (Pakistan).
 - Early roles in the U.S. in data analytics and risk modeling (e.g., Citi, Discover, Fulbright Academy) and later as CTO of PredictifyMe based in Research Triangle Park, NC

Blog Writing & Educational Content

Zeeshan Usmani maintains an active blog where he publishes Urdu and English language content, aimed at students and professionals:

- **“Introduction to Data Science”** (December 2019): A foundational Urdu language book covering key topics like Python, R, Power BI, and the data science lifecycle
- **“How to Become a Data Scientist for FREE”** (October 2019): Offers guidance for aspiring analysts, especially in resource-constrained settings, listing free training strategies and tools
- **“Data Science Career Paths”** (January 2020): Advises on industry demand, roles, curricula, and career entry strategies for emerging markets
- Blog sections with forward-looking topics: AI, blockchain, supply chain, IoT, and tech governance many posts published around May June 2023 covering innovation, diversity, and digital transformation in Urdu and English

Books & Publications

Books (Primarily technical and Urdu-language)

- **Introduction to Data Science** (Urdu)
- **Data Science Interview** (Urdu co-authored with Sana Rasheed) a prep guide for interview candidates in data science
- **Power BI (Advanced)** (Urdu co-authored with Sana Rasheed) deep dive into data visualization tools and business intelligence reporting
- **Data Visualization 2** (Urdu co-authored with Sana Rasheed)—focuses on advanced visualization techniques
- He is credited with over **50 books**, including titles like *Data Science*, *Python for Data Science*, *Big Data*, and *Python Machine Learning*—many reportedly translated into Urdu and published via Gufhtugu and other local brands

Peer- Reviewed & Conference Papers

From his personal page and CV:

- Work on biometric systems:
 - “How to Build an Automated Fingerprint Identification System” and others presented at ISBAST 2013 in Chengdu, China
- AI & forecasting applications:
 - “Suicide Bombing Forecaster Novel Techniques to Predict Patterns of Suicide Bombing in Pakistan”, presented at the 2012 Homeland Security track in San Diego
- Simulation and modeling research:
 - “Modeling and Simulation of Explosion Effectiveness” published in *The Journal of Defense Modeling and Simulation* (SAGE, 2009).
 - “Virtual Iraq Simulation of Insurgent Attacks” (IEEE award-winning paper, 2009).
 - Agent-based modeling of crowd behavior under explosive hazard, supermarket simulations, RFID marketing research, and more all delivered between 2008–2013 at IEEE or similar venues

Journal Articles & Whitepapers

- Scholarly articles include:
 - **“The Causal Relationship between Drone Attacks and Suicide Bombings”** (Heinz Journal, Carnegie Mellon, 2015).
 - **“Demystifying Drone Operations in Pakistan”** (Journal of Peace & Conflict Studies, 2015).

- **“The Impact of Drone Strikes in Pakistan”** (Cost of War Project, Brown University, Dec 2014).
- **“Modeling and Simulation of Explosion Effectiveness”** in *The Journal of Defense Modeling and Simulation* (2009)
- Corporate whitepapers include contributions to:
 - Intel Analytics guide (2019), blockchain-based tourism visa modeling, decentralized AI, and tools for detecting terrorist networks (2012–2020)

Summary

- **Education & Academia:** Ph.D. from FIT, faculty experience in Pakistan; strong background in computational modeling and simulation.
- **Blog & Books:** A prolific writer in both Urdu and English, with instructional titles on data science, machine learning, Power BI, career guidance and more—often tailored toward local audiences in Pakistan.
- **Scholarly Output:** Numerous conference papers (e.g. ISBAST, IEEE) and journal articles on biometric identification, terrorism modeling, and drone strike analysis.
- **Applied Research:** Corporate reports and thought leadership contributions in AI, blockchain, and analytics for institutions like Intel, UNGA, and Saudi agencies.

If you’d like details on a specific book, article, or topic (e.g. his drone strike modeling or his Urdu-language instructional series), I can dig in further!