Dr. Manish Gupta: Profile and Success Story as Distinguished Fellow in Artificial Intelligence by the AI Forum of IIT Alumni Council

Dr. Manish Gupta is a towering figure in the landscape of artificial intelligence, celebrated not only as an ingenious technologist but also as a passionate leader committed to making **AI** accessible and impactful for society at large. His conferment as a **Distinguished Fellow** in **Artificial Intelligence** by the **AI** Forum of the IIT Alumni Council is a recognition of a visionary career that bridges deep scientific accomplishment and a powerful ethos of responsible *innovation*.

Academic and Professional Journey

A graduate of IIT Delhi (B.Tech., 1987), Dr. Gupta's early distinction was marked by his gold medal and later recognition as a Distinguished Alumnus from IIT Delhi. He earned his Ph.D. in Computer Science from the University of Illinois at Urbana-Champaign, establishing expertise in parallel computing, machine learning, and data-driven intelligence. Dr. Gupta has co-authored around 75 scientific papers—amassing over 8,000 citations—and is a prolific inventor with 19 granted US patents. His *research* portfolio traverses high-performance computing, **AI** architectures, natural language processing, and multi-agent systems.

Industry Leadership & Innovation

Dr. Gupta's professional journey has led him across the upper echelons of technology, *innovation*, and academic influence:

Google DeepMind & Google Research India: As Senior Director, Dr. Gupta leads pioneering **AI** *research* teams across India and Japan, focusing on **AI** for diverse areas such as healthcare, language technologies, and empowering the agricultural ecosystem.

Blue Gene/L Supercomputer: At IBM's T.J. Watson Research Center (USA), Dr. Gupta orchestrated the development of the Blue Gene/L supercomputer's system software—a feat that earned IBM the U.S. National Medal of Technology and Innovation in 2009.

Entrepreneurship & Ecosystem Building: He co-founded VideoKen, an **AI** video technology startup, and served as Director of *research* centers at Xerox and IBM in India, and as Infosys Foundation Chair **Professor** at IIIT Bangalore.

Service & Philanthropy: In an exemplary act of giving back, Dr. Gupta and his sister endowed Chair Professorships at IIT Delhi to support outstanding women and early-career faculty, enriching India's academic excellence and *research* landscape.

Scientific Impact and Societal Vision

Dr. Gupta's work defines not just technical progress, but a broad, inclusive *vision* for **AI**:

Responsible & Inclusive **AI**: He leads projects advancing multi-modal **AI** models for 100+ Indic languages to democratize information and empower the diverse population of India, ensuring **AI** serves marginalized communities.

AI for Social Good: His *leadership* at DeepMind and Google Research India has driven **AI**-driven solutions for healthcare, agricultural transformation, and climate resilience—developing tools to analyze satellite imagery for improved farming, and designing systems to make healthcare accessible in

data-poor settings.

Mentor and Thought Leader: A Fellow of the Association for Computing Machinery (ACM) and the Indian National Academy of Engineering, Dr. Gupta is globally lauded for his academic mentorship, industry contributions, and as an influential speaker on the societal impact of **AI**.

Honors, Awards, and Recognition

Distinguished Alumnus Award, IIT Delhi

Fellow, ACM & Indian National Academy of Engineering

Outstanding Innovation and Technical Achievement Awards, IBM

Featured on Forbes AI Leaders 2025 list

Success Story & Leadership Philosophy

Dr. Manish Gupta's ascent from his roots at IIT Delhi to helming world-class **AI** *research* is powered by his core philosophy: "**AI** must not just be innovative, but also inclusive and ethical." He urges India to take bold steps in building foundational **AI** models and advocates for multicultural, multilingual **AI** to unlock opportunities for the billions in the Global South. His belief in **AI** for social good is captured by his unfailing commitment to make technology "accessible to all, not just the privileged few." Dr. Gupta's story continues to inspire the next generation—engineers, scientists, and entrepreneurs—toward ambitious, impactful, and empathetic use of artificial intelligence.

Dr. Gupta's narrative is one of relentless forward-thinking, a determination to bridge cutting-edge science with inclusive societal benefit, and a deep conviction that technology, at its best, is a force for global progress and humanity's collective good.