

Navneet Kumar Tyagi is a Senior Software Engineer, Cloud Architect, researcher, author, inventor, and technology leader with 19 years of experience advancing artificial intelligence, cloud computing, enterprise architecture, and digital transformation. In his current role at Finance of America, he leads the design and implementation of secure, scalable, AI-enabled enterprise platforms that support modernization initiatives in the financial services industry.

His scholarly contributions include 14 peer-reviewed research publications spanning artificial intelligence, machine learning, cloud computing, intelligent systems, software engineering, enterprise architecture, and financial technology. He has also authored and co-authored technical books focused on AI-driven enterprise modernization and explainable AI for cloud security, reflecting his commitment to translating emerging technologies into practical, real-world solutions.

Beyond research, Navneet has contributed to innovation through international intellectual property filings and serves the global scientific community as a reviewer for leading journals, including *Engineering Applications of Artificial Intelligence*, *Data in Brief*, and *MethodsX*, as well as for international conferences. He has chaired technical sessions, delivered invited talks at major international conferences, and published thought leadership articles through organizations such as the Forbes Technology Council, where he also serves as a Member Leader for the Enterprise Architecture Group.

A dedicated advocate for mentoring and scientific service, Navneet has served as an international judge and mentor for numerous innovation competitions and hackathons, helping cultivate the next generation of researchers, engineers, and entrepreneurs. His professional accomplishments have been recognized through honors including the Emerging Leader of the Year in Cloud and AI and the Global Recognition Award. He is an IEEE Senior Member, IETE Fellow, ACM Member, AAAI Member, Forbes Technology Council Member, and SCRS Fellow.

Through his research, innovation, professional leadership, and commitment to advancing science and technology, Navneet continues to foster interdisciplinary collaboration and promote the responsible adoption of AI and cloud technologies, making him well qualified to serve as an Associate Director Leadership Nominee for Sigma Xi.