

Aryan Chaudhary

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Summary

Aryan Chaudhary, the Director & Chief Scientific Advisor at BioTech Sphere Research, India, is an eminent figure in the healthcare and technology landscape, renowned for his groundbreaking contributions and innovative leadership. Formerly the Research Head at Nijji HealthCare Pvt Ltd, he has showcased unparalleled expertise in harnessing revolutionary technologies, including artificial intelligence, deep learning, IoT, cognitive technology, and blockchain, to reshape the healthcare industry. His work involves the development of rural healthcare, focusing on newer techniques like IoT-enabled devices and big data analysis through the integration of IoT, AI, and ML, to address the evolving needs of remote healthcare systems, least contact diagnostics, and the scope of augmenting rural healthcare systems in a self-sustainable way and promoting least contact diagnostics and augmenting rural healthcare infrastructure.

His publication around Authored/edited 40–45 books (published and forthcoming), 49 research papers, 12 special issues, 10 published books; multiple upcoming publications; holder of 2 Canadian copyrights and 1 UK design registration

He is a sought-after Guest Editor for international journals, including EAI Endorsed Transactions Open Health, IEEE-JBHI, Measurement Sensors, RACSC, JBISE, JDAIC, JCCR etc. Further, he serves as a Series Editor for prestigious publishers such as AAP, CRC, CSP, Bentham Science, and Jenny Stanford, further solidifying his influence in the academic community. Aryan also serves on the editorial boards of IEEE (HITC), APHA, ICRTCIS, IAENG, Intech Open, JBISE, and BSCR, and is the Brand Ambassador at Bentham Science. Recognized for his significant contributions, He has received prestigious accolades, including the "Most Inspiring Young Leader in Healthtech Space 2022" by Business Connect and the title of the best project leader at Global Education and Corporate Leadership. Moreover, he holds senior memberships in various international science associations, reflecting his influence and impact in the field.

In leadership roles, Aryan is the Chair of the Meerut ACM Professional Chapter, where he spearheads a robust community of computing enthusiasts committed to collaboration, learning, and innovation across various domains of computer science and related fields. He is also a member of the ACM U.S. Technology Policy Committee (USTPC) in the AI & Algorithms division, where he contributes his expertise to shape policies that drive innovation and advancement in the field.

Adding to his illustrious portfolio, he has been appointed as a Technical Committee Member for the tenure 2024–2025 with the IEEE Robotics and Automation Society. Additionally, he has been elected as a regular fellow member of the International Organization for Academic and Scientific Development (IOASD) and admitted as a member of the International Association for Carbon Capture (MIACC). His influence further extends as a technical committee member of IEEE CTSoc- Consumer Systems for Healthcare and Wellbeing (CSH)

He has been invited as a keynote speaker and guest lecturer at various international conferences and events, showcasing his expertise and leadership in the field.

Experience

Director, Bio Tech Sphere Research | A Unit of NeoNexus Healthcare Pvt Ltd

Sep 2024 - Present ·

I have been appointed as the Director of NEONEXUS HEALTH CARE PRIVATE LIMITED. As part of this new chapter, BioTech Sphere Research, known for its pioneering work in healthcare innovation and rural development, is now a unit of NEONEXUS HEALTH CARE PRIVATE LIMITED. Our focus remains steadfast on enhancing access to quality healthcare, particularly in underserved areas.

We are also excited to announce our strategic alignment with the European Connected Health Alliance (ECH

Alliance) to further our mission of empowering progress through cutting-edge healthcare research and technologies. Read more about our vision and initiatives here: <https://echalliance.com/news/biotech-sphere-research-theorganisation-that-empowers-progress-and-access-in-india/>).

Chief Scientific Advisor Bio Tech Sphere Research

Jul 2023 – Sep 2024

Appointed as Chief Scientific Advisor at BioTech Sphere Research, India.

As the Chief Scientific Advisor at Bio Tech Sphere Research(Firm leading in research development, consulting services, brand promotion and collaborative research programs), India, I continues to lead the charge in transforming healthcare through innovative technologies, shaping the future of medicine and healthcare delivery on a global scale. His remarkable journey is an inspiration to aspiring researchers and technologists, leaving a profound impact on the Biotech and Healthtech spheres.

I will be responsible for:

1. Providing strategic guidance and counsel to our research project.
2. Developing and implementing research plans that align with our firm's long-term vision.
3. Identifying opportunities for growth and expansion in the research
4. Forging alliances with prominent researchers, institutions, and industry stakeholders.
5. Overseeing the development of cutting-edge technologies and methodologies to enhance our research capabilities.

Chairperson

Aug 2023 - Present

ACM Meerut Professional Chapter, Meerut , India

Elected as the Chairperson for the Meerut ACM Chapter. The Chapter Chairperson has the overall responsibility for developing chapter programs, and ensuring that plans and assignments are carried out.

Meerut, ACM Professional Chapter

The Meerut ACM Professional Chapter aims to bring together computing professionals, academics, and students in the local area to foster knowledge sharing, professional development, and networking opportunities. The chapter will operate under the umbrella of the Association for Computing Machinery(ACM) and adhere to its principles and guidelines.

The mission of the Meerut ACM Professional Chapter is to create a vibrant community of computing enthusiasts who collaborate, learn, and innovate in various domains of computer science and related fields. The chapter will strive to enhance the skills and knowledge of its members, promote research and technical advancement, and contribute positively to the local computing ecosystem.

At the Meerut ACM Professional Chapter, we aspire to create a dynamic and inclusive community where computing professionals thrive, learn, and collaborate. Through our diverse range of activities and events, we aim to make a substantial impact on the local computing ecosystem and contribute to the growth and development of our members.

Research Head

Nov 2019 - Nov 2022 (3 years 1 month)

Nijji Healthcare Pvt Ltd , Kolkata , India

In my role as Research Head at Nijji Healthcare Pvt Ltd, I have had the privilege of leading the Rural Health Project, a pioneering initiative aimed at providing 24/7 access to qualified healthcare professionals (HCPs) and enabling access to patients' vital signs through IoT technology. By combining the power of AI and ML, we have developed a platform that not only facilitates data mining and analytics but also ensures access to quality medicines through an AI-driven supply network. Additionally, the platform serves as a valuable tool for sensitizing the careseeking population and training AAA networks. The project has garnered recognition and has been invited for a Paper Presentation at The American Public Health Association Annual Meeting, scheduled to be held on 6-9 November 2022 in Boston.

Skills

Research and Development (R&D) • Board Administration • Project Management • Rural Development • Rural Health • Healthcare Management • Management • Writing • Research Skills • Editing

Honors & Awards

Regular Fellow - International Organization for Academic and Scientific Development (IOASD) Oct 2023

Elected as a Regular Fellow member of the International Organization for Academic and Scientific Development (IOASD). I With immense honor and enthusiasm that I accept this prestigious title of FIOASD. This is a significant milestone in my academic and scientific journey, and I am deeply grateful for the trust and recognition bestowed upon me by IOASD.

Best Project Leader Award - Global Education and Corporate Leadership (GECL-2021) Dec 2021

Received Best Project Leader Award -by Global Education and Corporate Leadership (GECL-2021) Awards, 4th International Annual Awards summit. The organization received more than 350 Nominations for different Categories and honored 57 Awards from India and overseas (Philippines, Vietnam, US, Miami, Florida and many more) on 18th December 2021. I was one of them.

The Most Inspiring Young Leader in Healthtech Space 2022 - Business Connect India Feb 2022

Received The Most Inspiring Young Leader in Healthtech Space 2022 Recognized By Business Connect : Orbital Next (Nijji Healthcare)

Invited Speaker

Success isn't always about greatness. It's about consistency. Consistent hard work leads to success. Over a period of time , I have been invited as keynote and plenary speaker in the following national & international conferences

- 1) ICLAIML 2021 23rd International Conference on Logics in Artificial Intelligence and Machine Learning at Tokyo, Japan
- 2) 2ND INNOVATIVE PRODUCT DESIGN AND INTELLIGENT MANUFACTURING SYSTEMS
- 3) ACM-India13th annual COMPUTE conference
- 4) 2020 International Conference On Computer-Aided Design and ACM Research competition
- 5) International Meet on Public Health and Healthcare Management will be held in Nice, France during November 04-06, 2021
- 6) ACM MobiSys2021
- 7) IACC-2021: 11th International Advanced Computing Conference, University of Malta, Malta on 18-19th December, 2021
- 8) Key Note Speaker - ADVANCE EMERGING TECHNOLOGIES, RESEARCH AND PRACTICAL APPLICATION
- 9) IoT The Future of Health Care, Session: HIIT Telehealth Posters ,Program: Health Informatics Information Technology 2022 APHA Annual Meeting and Expo , Boston
- 10) Invited as Speaker Frontiers Health Global Conference , Berlin on November 11 and 12, 2025-
<https://www.frontiers.health/speaker/aryan-chaudhary>

Professional Membership and Volunteering

1. Technical Committee Member , IEEE CTSoc-VAM TC

Appointed as a member of CTSoc's Consumer Systems for Healthcare and Wellbeing (CSH) Technical Committees.

Link : <https://ctsoc.ieee.org/technical/technical-committees/csh-tc.html?view=article&id=306:csh-tc-members&catid=21>

2. Program Reviewer, American Public Health Association

Served as a Program Reviewer for the APHA Public Health Film Festival Short Films Program of the APHA 2023 Annual Meeting and Expo -Atlanta,USA

3. Technical Committee Member ,IEEE Robotics and Automation Society

Appointed as Technical Committee Member for the tenure 2024–2025 with the IEEE Robotics and Automation Society

4. Brand Ambassador,Bentham Science

Appointed as Brand Ambassador for Bentham Science

5. Member,International Association for Carbon Capture

Admitted as a Member of the International Association for Carbon Capture (MIACC)

6. Member,IAENG

Member of IAENG and the IAENG Society of Artificial Intelligence, contributing toward society.

7. CSTA,India

Chapter Leader for Computer Science Teachers Association , India

Link: <https://india.csteachers.org/page/about-csta-india>

8. Member of the ACM U.S. Technology Policy Committee (USTPC) in the AI & Algorithms division

Nominated as a member of the ACM U.S. Technology Policy Committee (USTPC) in the AI & Algorithms division.

USTPC plays a pivotal role as the focal point for ACM's engagement with U.S.government organizations, the tech community, and the American public. It takes on crucial U.S. public policy matters related to information technology and computing.

9. OHT Fellow,London , UK

The OHT Fellowship is a global leadership and development programme which supports trailblazers in healthtech to become inclusive future leaders who embed diversity and inclusion into everything they do. Fellows address important enablers of diversity and inclusion in healthtech by running impactful Campaigns, curating local Hubs or ensuring OHT is the more inclusive, accessible and rocket-fuelled community out there for years to come.

10. Industry Mentor

I'm thrilled to be part of the Professional Mentoring Programme at University of East London and grateful for the opportunity to support the next generation of professionals.

11. Editorial Board : Premier Science

Joined the Editorial Board of Premier Science, a forward-thinking open-access platform committed to advancing multidisciplinary research and innovation. Premier Science provides a global space for impactful, peer-reviewed scientific contributions, and I'm excited to contribute to its mission of fostering accessible and high-quality scholarly communication.

<https://premierscience.com/about/#editorial-board>

12. International Telecommunication Union : Served as the Expert within the U4SSC Thematic Group
13. SBBS Industrial Advisory Board- Excited to share that I have joined the School of Biological & Behavioural Sciences (SBBS) Industrial Advisory Board at Queen Mary University of London.

Education

London Business School

Executive , Business Analytics in the Age of Generative AI

Apr 2025 - Jul 2025

Grade: A+

Business Analytics in the Age of Generative AI

- The evolution of business analytics: Learn how Generative AI shapes decision-making and future strategies.
- Data visualisation skills: Turn complex datasets into clear narratives which guide stakeholder discussions.
- Data-centric decision-making: Gain confidence to spot trends.
- Predictive analytics and classification: Understand the intricate relationships between variables and data-driven create models to predict future outcomes and make effective decisions.
- Unsupervised learning insights: Explore and identify patterns directly from data, offering fresh perspectives and finding new opportunities.
- Application in real business scenarios: Apply your new knowledge to solve complex business challenges, be more effective and communicate your insights with confidence.

Queen Mary University of London

BSc (Hons) , Computer Science

Bachelor of Science with Honours in Computer Science at a Russell Group institution, with a curriculum emphasizing core computing principles, programming, systems architecture, and applied software engineering.

The Wharton School, The University of Pennsylvania | Wharton Executive Education

Executive , Artificial Intelligence for Business

Apr 2020 - Jun 2020

Grade: A

The Fundamentals of Big Data, Artificial Intelligence, and Machine Learning to organization's strategy.

Licenses & Certifications

Baseline: Infrastructure - Qwiklabs
Workspace Essentials - Qwiklabs
Google Analytics Individual Qualification - Google Analytics for Business
Google Analytics for Beginners - Google Analytics for Business
Google Tag Manager Fundamentals - Google Analytics for Business
AI for Business - Wharton Online
Wharton Online Alumni - Wharton Online
Continuing Education Unit (CEU) - Wharton Online
Blockchain Technology - Indian Institute of Technology, Roorkee
AI & Analytics based Business Strategy - The Economic Times
Entrepreneurship for Digital Health-King's Health Partners
SMU GLOBAL SUMMER PROGRAMME- Singapore
Management University

Research Profile

1. <https://www.researchgate.net/profile/Aryan-Chaudhary-2>
2. <https://orcid.org/0000-0002-4751-9542>
3. <https://www.linkedin.com/in/aryan-chaudhary-878915>

Languages

English , Hindi

Projects

1) Orbital Next, a visionary initiative by Nijji Healthcare Pvt. Ltd., is revolutionizing healthcare access and delivery, particularly in underserved regions. This project integrates cutting-edge technologies to create a comprehensive healthcare ecosystem.

Key Objectives:

- 24/7 HCP Access: Facilitate seamless remote consultations with qualified healthcare professionals (HCPs) anytime, anywhere.
- Real-Time Patient Monitoring: Leverage Internet of Things (IoT) devices for continuous vital sign monitoring, enabling proactive interventions and improved patient outcomes.
- AI-Powered Analytics: Utilize artificial intelligence (AI) and machine learning (ML) for data mining and analysis. This allows for faster diagnosis, better prognosis monitoring, and data-driven research that fuels future medical advancements.
- Intelligent Supply Chain Network: Leverage AI to optimize the medicine supply network, ensuring access to quality medications for patients.
- Population Sensitization: Educate communities about preventive healthcare and empower them to actively participate in their well-being.
- AAA Network Training: Enhance the skills and knowledge of auxiliary healthcare workers (AAAs) to provide better care within their communities.

Impact:

Orbital Next fosters a self-sustainable healthcare ecosystem by:

- Empowering Remote Care: Enables remote diagnosis and monitoring, reducing the burden on traditional healthcare facilities.
- Minimizing Contact Diagnostics: Promotes safe, minimized contact healthcare delivery.
- Transforming Rural Healthcare: Extends high-quality healthcare access to remote and underserved areas.
- Advancing Clinical Research: Facilitates data-driven research for the development of better treatments, drugs, and diagnostic tools.

2) Being Chair at Meerut ACM Chapter , under my adapt leadership we launch *NextGen Wearables Hub under the Meerut ACM Professional Chapter* is a significant step towards embracing and exploring the burgeoning field of wearable technology

It is poised to become a platform for individuals passionate about the diverse applications and innovations within this dynamic field. Our mission is to facilitate engagement among like-minded peers, industry experts, and academics who share a keen interest in wearable technology's possibilities.

The transformative potential of Wearable technology is vast. It promises to lower hospital operational costs by up to 16%, enabling more accessible and affordable healthcare . Moreover, the technology empowers individuals with real-time health monitoring, aiding in early detection and management of health conditions, thus promoting a proactive healthcare approach

We are committed to :

Awareness Campaigns: Conduct awareness campaigns in Tier 2 and Tier 3 colleges to inform students about the potential of wearable technology and the opportunities

Workshops and Hackathons: Organizing workshops, hackathons, and interactive sessions to provide hands-on experience And to ignite curiosity and innovation among students.

Mentorship Programs: Establish mentorship programs connecting students with industry professionals and academics to guide them in their wearable technology projects and career aspirations.

Collaborative Projects: Encouraging collaborative projects between colleges and the Wearable EIG to provide practical exposure and foster a culture of interdisciplinary learning and innovation.

Future Prospect

Multidisciplinary Development: Encouraging multidisciplinary development of wearable technologies to address various societal challenges and needs .

Sustainable Wearables: A focus on developing sustainable wearables that integrate seamlessly into society, overcoming current barriers and advancing wearable technology from a technical perspective .

Educational Initiatives: Establishing educational initiatives to explore the use of wearable technologies in teaching and learning environments, thereby shaping a design space for wearable education .

Editorial Role

Serving as a Guest Editor for numerous influential journals and special issues. *Under his editorial leadership, several prominent special issues have been published, including*

Advances in the Application of AI and Robotics - EAI Endorsed Transactions on AI and Robotics

Advancements in Neuroadaptive Computing - Open Health (De Gruyter)

Special Issue on Advancing Personalized Healthcare: Integrating AI and Health Informatics - IEEE JBHI

Special Issue on Neural Network and Deep Learning: Next Level of Health Care - Journal of Biomedical Science and Engineering

Integration of Artificial Intelligence with Network Biology - Journal of Decision Analytics and Intelligent Computing

Emerging Technologies: Research and Practical Application - Published Journal of Clinical Cases & Reports (ISSN: 2582-0435)

Advancements in the Wearables: Innovation and Implementations in Human Augmentation - Measurement Sensor

Revolutionizing Industries: AI-Driven Robotics - Recent Advances in Computer Science and Communications

Next-Gen Healthcare: Machine Learning Paradigms for Consumer-Centric Devices : IEEE Transactions on Consumer Electronics

VSI: Behavioral Pharmacology in Pharmacology Biochemistry and Behavior

In his role as a *Series Editor*, Aryan oversees several key series, including "Emerging Technologies: Research and Practical Applications" with Taylor and Francis, the "Bentham E-Health Series" with Bentham Science, "Healthcare Horizons" with Taylor and Francis, and "The Wearable Frontier: Redefining Human Augmentation" with Nova Science.

His extensive editorial experience includes memberships on the editorial boards of IEEE (HITC), the American Public Health Association (APHA), IGI Global, the International Association of Engineers (IAENG), IntechOpen, the Journal of Biomedical Science and Engineering (JBISE)

Affiliations

FIOASD I Director | Chairperson-Meerut ACM Chapter I USTPC | OHT Fellow | Public Governor – Oxleas NHS Foundation Trust

Professional Roles & Appointments

- Council of Governors, *Oxleas NHS Foundation Trust (2025–2028)*
- Advisory Board Member, *CSE-APEX, CGC University Mohali*
- Research Consultant, *NORXIN*
- Guest Editor, *Pharmacology, Biochemistry and Behavior (Elsevier)*
- Peer Reviewer, *Risk Management and Healthcare Policy* (Taylor & Francis Group | Dove Medical Press)
- Technical Program Committee (TPC), *6th International Conference on Recent Trends in Communication & Intelligent Systems (ICRTCIS 2025)*, Arya College of Engineering & I.T., Jaipur
- Editorial Board Member, *International Journal of Clinical and Medical Education Research (OPAST Publishers)*
- Editorial Board Member, *Premier Science Ltd* – advancing multidisciplinary open-access research
- Industrial Advisory Board Member, *University of East London*
- Wharton Impact & Sustainability Consulting (WISC) – *Project Spring 2026*
- Involved with NIHR, *National Institute for Health and Care Research (UK)*

Research Leadership & Innovation

- Leading BioTech Sphere Research, India | A Unit of NeoNexus Healthcare Pvt Ltd – expanding into R&D Publishing with 66 + peer-reviewed publications, 28,000 + reads across 70 + countries, and a Research Interest Score of 555.5.
- AI-Driven Early Detection of Skin Cancer Study with NIHR, focusing on tele-dermatology and early diagnosis.
- Featured in The Business of AI Podcast (UKAI) – “How can AI improve access to care at the last mile without losing the human touch?”
 - Discussed *Project Phoenix*, a portable, offline-first platform for frontline health workers.
 - 10,000 + individuals screened, 200 + workers trained, active in 20 + districts of Uttar Pradesh.
 - Expansion plans for Ghana, Kenya, Nigeria and South Africa using SMS and local-language interfaces.
 - Listen [here](#) | Watch [here](#)

Publications & Editorial Highlights

- “*Rare Diseases: A Comprehensive Literature Review and Future Directions*” — Journal of Rare Diseases (Springer Nature, Vol. 4, Article 33, July 2025)
- “*Innovating Rare Disease Management: Bridging the Gap Between Research and Healthcare*” — *Healthcare Horizon Series* (Taylor & Francis Group)
- Active contributor to global policy dialogues following the 78th World Health Assembly (WHA) Resolution on Rare Diseases, promoting equitable health access worldwide.
- Contributor to the Belem Health Action Plan Library, reinforcing alignment with WHO and global south digital health initiatives.

Intellectual Property & Innovation

- “Medical Device for Early Skin Cancer Diagnosis” — Registered with UK Intellectual Property Office (Design No. 6464408, Grant Date: 01 Sep 2025)
- “Blockchain-Based Health Monitoring Device” — Registered with UK IPO (Design No. 6426513)
- “Cloud-Integrated System and Method for Health Diagnostics Using IoT Biomedical Devices and Machine Learning” — Registered under Canadian Intellectual Property Office (CIPO)

Organisational Memberships & Strategic Partnerships

- UN Global Compact — Allied Member
- GA4GH – Global Alliance for Genomics and Health
- IRDiRC – International Rare Diseases Research Consortium
- DORA – San Francisco Declaration on Research Assessment
- ECH Alliance – European Connected Health Alliance
- UN Women Empowerment Principles (WEP)
- Start-Up India & Start-Up UP, Skill India, Village Capital, MSME
- ACM, HealthAI Community of Practice, UKAI, Google for Education
- RDI (WHA Rare Disease Initiative) & ABDM – Ayushman Bharat Digital Mission

Media & Press Coverage

- *BioTech Sphere Research: The Organisation that Empowers Progress and Access in India* — [Read More](#)
- *Project Phoenix – Industry Partnership: Empowering Rural Healthcare Access* — [Read More](#)
- *Launching Phoenix Health Intervention: A New Era in Rural Healthcare* — [Read More](#)

- *Phoenix Health Intervention Expands Rural Healthcare with Ground-Level Health Camps in Uttar Pradesh* — [Read More](#)
- *Rural India Health Boost: Phoenix Camps Aid Thousands* — [Read More](#)
- *BioTech Sphere Research: Rare Disease Innovation in India* — [Read More](#)

Leadership in Global Health Innovation

- Founder & Director, *BioTech Sphere Research, India* | *A Unit of NeoNexus Healthcare Pvt Ltd*
Leading R&D, consulting, and digital health innovation initiatives with a mission to bridge healthcare inequities in rural and underserved regions across India and LMICs.
- **Project Phoenix Initiative:**
A flagship, AI- and IoT-enabled health access platform designed to close the rural–urban healthcare gap through telemedicine, community health camps, and smart diagnostic kits.
 - Reached 10,000+ beneficiaries, 200+ trained health workers, and 20+ districts in Uttar Pradesh.
 - Expanding into Ghana, Kenya, Nigeria, and South Africa via SMS-based and offline systems.
 - Engaged with government health authorities, NGOs, and local governance bodies to align with India’s *Ayushman Bharat Digital Mission (ABDM)* and LMIC digital inclusion frameworks.
 - Integrated into the Belem Health Action Plan Library (WHO) under the Rare Disease and Rural Health Access portfolios for its scalable, community-based digital model.
- **Government Engagements:**
Active collaborations with district and state health departments for rural healthcare delivery; aligning interventions with India’s *National Digital Health Blueprint (NDHB)* and the *UN SDG 3: Health & Well-Being* targets. Project Phoenix has been recognized as an example of public–private cooperation for primary healthcare capacity building and community-based digital diagnostics.