AI in Healthcare

- Organized by BFI-BIOME Networks and Social Innovations @ Venture Center -

Expected Outcomes	• Identify opportunities and challenges in the field. Get a sense of how the field is moving. • Brainstorming platform for all stakeholders in the field • Startups participating in the Startup Mixer will be eligible to compete for prizes. Startups get to pitch to serious investors.
Workshop Director	• Dr. Premnath V, Director Venture Center
Organized by	• Social Innovations @ Venture Center • BFI-BIOME Networks
Supported by	• Venture Center, Pune • Blockchain for Impact
For whom	• Technology developers and innovators • Early-stage inventive enterprises and science-based startups • Investors • Clinicians
When	11 November 2024, 0930 - 1730
Where	**Lecture Theatre, Venture Center, 900 NCL Innovation Park, Dr. Homi Bhabha Road, Pune**
Organization Lead	Mugdha Lele, Head Social Innovations
Contact	**Technical queries:** Mugdha Lele	mugdha@venturecenter.co.in	7410045652 **Registration queries:** Niruta Killedar	niruta.killedar@venturecenter.co.in	8956226080
Registration	**Registration Fee: None** **Confirmation Fee: 500/-** ***100% waiver of confirmation fee for*** Venture Center's BFI-BIOME Fellows and Kickstarters, NCL-TEC members Registration Process: • Step 1: Interested participants need to fill in the registration form at the registration link. • Step 2: Organizers reserve the right to select participants to maximize learning/ discussion/networking outcomes of the workshop and manage group size for better interaction. Organizers will invite selected participants to complete their registration process via payment of a confirmation fee. • Step 3: Separate confirmation email will be sent to participants post screening of registration details. For registration: https://docs.google.com/forms/d/e/1FAIpQLSd-rzVOIhT3jMYsomSJPZWS4WnCYhb-ztPdJqtlY4LlVgISKQ/viewform?usp=sf_link Event website and details: https://www.venturecenter.co.in/bfi-biome/workshops/

Introduction

The BFI-BIOME supported Mixers and Ecosystem Development Workshops are aimed at bringing together people who are passionate about solving important problems in healthcare by developing or using cutting edge technologies. These events hope to energize innovators, stimulate thinking and catalyze new collaborative projects in the backdrop of informative and insightful talks and curated networking activities.

In this particular event, we shall focus on Artificial Intelligence in Healthcare. We will analyze how healthcare and technology will be impacted by AI. We will discuss the state of art, opportunities, challenges/ limitations and the players and explore applications in:

- Patient care and healthcare delivery
- Diagnostics
- Devices and surgical tools
- Therapeutics, drug development
- Digital therapies
- Public health delivery, monitoring
- Surveillance
- Nutrition and wellness
- Traditional medicine

How is this event different?

- The focus aims to catalyze action! The focus of the event shall be on forging collaborations/ partnerships (between tech developers, and between developers and funders). Key goals:
  - Help technology developers forge partnerships
  - Help startup founders find co founders and colleagues
  - Help create useful collisions of technologists, clinicians and funders
  - Help mobilize teams for writing project proposals for funding calls
- The focus shall be on identifying opportunities and providing a sense of the state-of-art while also pointing to real-world challenges.

Workshop Includes

- Tea and snacks; Lunch at the Innovation Café, Venture Center
- Membership of Venture Center's mailing list that announces funding calls, events and other opportunities for innovators/ entrepreneurs
- e-Certificate of Participation
- Online collection of reading materials

Information

- Venture Center is located in NCL Innovation Park, Dr Homi Bhabha Road, Pashan, Pune. Location pin: https://g.co/kgs/bgnzAbG
- Participants have to arrange their own travel, accommodation and transport

Workshop Schedule

Time	Session	Speakers
0900 – 0915	Registration and Tea Venue: 900 NIP, Foyer area	
0915 – 0930 0930 – 1100 (90 min)	● Welcome. Introduction to the Organizers and the Workshop Session 1: Inaugural session ● **Perspective Talk: How should startups leverage AI for healthcare and related applications?** ● Fireside chat with the speaker: Opportunities in using AI in Healthcare.	Mugdha Lele Anand Deshpande Moderator: Mayur Datar
1100 – 1130	Networking Tea/Coffee Venue: 900 NIP, Foyer area	
1130 – 1300 (90 min)	Session 2: Panel Discussion Challenges for AI in Healthcare	Moderator: Premnath V ● Santosh Dixit, Persistent Labs ● Nandini Sahasrabuddhe, Velsera ● Gaurav Tripathi, Innoplexus ● Ashutosh Pathak, DeepTek.AI ● Pankaj Doshi, Pfizer
1300 – 1400	Lunch Break: Venue: Innovation Café, NIP	
1400 – 1530 (90 min)	Session 3: Startup Mixer Lightening Pitches or Company Introduction with recommendations (In person or virtually)	Moderator: Niruta Killedar and Ria Deshpande In front of Panel: Anand Deshpande Sanjay Kanvinde Awanti Mehendale Kiran Deshpande Madhukar Bhatia
1530 – 1600	Networking Tea/Coffee Venue: 900 NIP, Foyer area	
1600 – 1730 (90 min)	● Session 04: Panel Discussion Investing in AI based Healthcare Applications (60 min) Followed by: (30 min) ● Summing up of the learnings from the day (Ria Deshpande)	Moderator: Soma Chattopadhyay Maneesh Bhandari, Madhukar Bhatia, Kiran Deshpande, Sanjay Kanvinde, Tanvi Ghate

- Announcement of prizes
- Announcement of upcoming funding opportunities
  (Mugdha Lele)

1730 – 1800	Networking Tea/Coffee Venue: 900 NIP, Foyer area	

Maneesh Bhandari

Maneesh is a techie at heart and is driven by the passion to build highly scalable businesses. He has grown and lived through an entrepreneurial journey from being an intrapreneur at Citigroup, starting and running his first venture for 10 years, then being an active angel investor with positions on the boards of several companies to GrowthPal. He has over 30 years of experience in a variety of companies across sectors, and stages as well as around the globe. He has a passion to teach and has been invited to several institutions including IIM Ahmedabad, IIM Kolkata, SIBM, IIT Kharagpur, New Jersey Institute of Technology, etc. He holds a B.Tech degree from IIT Kharagpur and an MBA from NYU's Stern School of Business.

Madhukar Bhatia

Madhukar Bhatia is the Managing Partner of Pentathlon Ventures, a venture capital firm that invests in early-stage B2B SaaS startups in India. As the Managing Partner of Pentathlon Ventures, he is responsible for identifying investment opportunities, providing strategic guidance to portfolio companies, and building relationships with other investors and stakeholders in the startup ecosystem. Prior to co-founding Pentathlon Ventures, Madhukar founded Sapience Analytics which is an advanced analytics platform powered by business intelligence and machine learning that proves a fully automated multifaceted view of Enterprise Effort. He has held senior positions at companies such as nFactorial-Software, Symphony Services, and Veritas Software. He is an alumnus of IIT Bombay, and a technologist at heart who has been a strong advocate for using technology to solve complex business problems and create new opportunities for growth and innovation. Additionally, he is actively involved in promoting entrepreneurship and innovation in India and is dedicated to helping aspiring entrepreneurs succeed and positively impact the world.

Soma Chattopadhyay

Soma heads the Incubator and mentoring vertical of Venture Center and is a recipient of the Chevening Gurukul Fellowship from Oxford University, UK. At Venture Center, she is responsible for managing the incubation activities: identifying potential innovators, entrepreneurs, and early-stage start-ups, conducting in-depth technical and business mentoring, and raising various funds for the incubator. Soma serves as the nominee director on the board of Dee Dee Labs Pvt. Ltd that works in medical & assistive device domain. She won the "Star Gazing award for Incubation Managers 2016" award by Indian STEP and Business Incubator Association (ISBA) & DST. Soma joined Venture Center with >9 years of experience as Team Leader-in the R&D division of an MNC named Cookson Electronics where she built novel materials for electronics. She has a Masters degree in Physical Chemistry and is a certified internal auditor for ISO 9001:2008,trained for implementing ISO 17025 standard and certified Six-Sigma Green Belt.

Mayur Datar, PhD

Mayur works as a Chief Data Scientist with Flipkart in Bengaluru. He leads a large team of data scientists and together they are working on building the most advanced e-commerce landscape in India. Prior to joining Flipkart, Mayur worked for Google as a Research Scientist for over 12 years. At Google, Mayur led various projects namely Keyword Suggestion Tool for advertisers, Google Adwords Broad Matching, Google News personalization, Ratings/Reviews infrastructure, Adsense targeting for Social networks and others. He & his teams were credited with working on projects which had a big impact on Google's bottom-line. Mayur has a doctorate in computer science from Stanford university and obtained his Bachelor of Technology from I.I.T. Bombay. He was awarded the President of India, Gold Medal for the 'most outstanding student' of his graduating batch at I.I.T. Bombay. He has several publications which have been presented in renowned conferences like SIGMOD, VLDB, KDD, FOCS, SODA, WWW. He serves on the review committees for most of these conferences. He is known in the industry for his technical leadership, pragmatic result oriented machine learning & systems design and experience in internet consumer related challenges. His research interests include data-mining, algorithms, databases and computer science theory.

Anand Deshpande, PhD

Dr. Anand Deshpande is the Founder and Chairman of Persistent Systems. After transitioning from the role of CEO at Persistent, Anand is committed to making a broader impact and is focused on data, higher education, and entrepreneurship. He is a trustee of the VLDB Foundation, and is actively working on projects to create a data platform for Indian patients suffering from cancer and diabetes. He is an honorary Adjunct Professor of Practice at the Desai Sethi School of Entrepreneurship at IIT Bombay, Chairman of the Board of Governors of IIT Patna, and the interim Chairman of the Board of Governors at IIIT Allahabad. In addition, he is on the governing board of the College of Engineering, Pune, and on the board of Gokhale Institute of Politics and Economics, Pune. With his family members, Anand has established the DeAsra Foundation. This non-profit entity focuses on creating self-employment at scale and through the Second Orbit program, in collaboration with Dr. Ashok Korwar, he has helped hundreds of entrepreneurs scale their businesses. Anand holds a Bachelor of Technology (B. Tech.) with Honours (Hons.) in Computer Science and Engineering from the Indian Institute of Technology (IIT), Kharagpur, and an M.S. and a Ph.D. in Computer Science from Indiana University, Bloomington, Indiana, USA. He has been recognized by both his alma maters — as a Distinguished Alumnus in 2012 by IIT Kharagpur and by the School of Informatics of Indiana University with the Career Achievement Award in 2007.

Kiran Deshpande

Kiran Deshpande has been a technology professional since 1978, having played a role in founding years of the Indian software industry. Kiran has built and commercialized first time technologies for global usage. His experience combines 25 years in software services from as software engineer to CEO, and 18 years in a deep tech products startup. Kiran served as CEO of TechM from 1996 to 2001 during which the company grew significantly becoming a leading IT Services company. He co-founded Mojo Networks that invented WiFi intrusion prevention and cloud-based WiFi. His founding years were in TCS. Kiran is now a Board advisor, mentor and an angel investor. Kiran has been TiE Pune Charter Member since 2009, served as its President for four years and is now a Global Trustee. Kiran played a key role in the mentoring program at TiE Pune. Kiran is Director of 14Trees Foundation dedicated to reforestation of barren uncultivable land. Kiran is a Senior Member IEEE, member ACM, an avid jogger and enjoys Hindustani classical music and photography.

Santosh Dixit, PhD

Santosh is currently Chief Domain Expert (Healthcare and Life Sciences) in Persistent Systems - Innovation Labs, Pune. He has over 20 years of experience in translational research including preclinical and clinical pharmacology, drug design and development, regulatory affairs, and public health policy. He leads a multi-disciplinary team at Persistent Systems focused on developing technology innovations for the Biomedical R&D ecosystem, with focus on AI-related technologies. Prior to his current engagement, Santosh was a Senior Scientist at Center for Translational Cancer Research, where he established and operationalised the Breast Cancer themed Cancer Research Program. He was also a Clinical Research Scientist at Prashanti Cancer Care Mission in addition to other consulting stints. He is a trained pharmacist with a PhD from University of Cincinnati and a Postdoc from Western University, Canada.

Pankaj Doshi, PhD

Dr. Pankaj Doshi is currently the head of process modeling, formulation and process design in the Drug Product Design department in the worldwide R&D organization of Pfizer Inc. He has been leading digital process design strategy with the aim of developing digital twins for batch and continuous drug product processes to expedite process development. Pankaj has expertise in scale-up and modeling of pharmaceutical processes and unit operations using computational techniques like CFD, DEM and PBM. He started his industrial career at GSK where he developed a computational model for dry powder inhaler. This was followed by an academic stint at National Chemical Laboratory, Pune, where he led the group of graduate students to study and develop models for pharmaceutical processes. He has published 50 papers and delivered over 50 presentations. Pankaj received his BS and MS in chemical engineering from Indian Institute of Technology (IIT), Mumbai India, Doctor of Philosophy (Ph.D.) in chemical engineering from Purdue University in 2003, which was followed by a postdoctoral research at Massachusetts Institute of Technology.
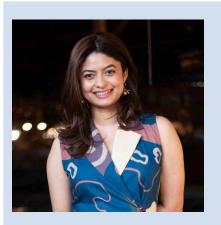
Tanvi Ghate

Tanvi leads legal for Lightbox, an early stage focused VC fund managing $400MM in capital. She focuses on structuring investments for the fund, negotiating commercial terms to meaningfully participate in a portfolio company's growth through board engagement, providing day to day entrepreneur support and driving strategic decisions through operational involvement. She supports portfolio companies on commercial matters with respect to fundraises (both equity and debt), management equity incentive structures, corporate governance and risk management among others. She is actively involved in designing and integrating ESG considerations within the investment thesis and is also leading Lightbox's efforts of building a Corporate Governance Framework for start-ups - one that is dynamic, proactive and customized for each company's growth stage. After completing her education from Pune's ILS Law college, Tanvi started her career in corporate law with AZB & Partners, in Mumbai joining the M&A and capital markets team and working with marquee companies on their IPO roadmaps. She subsequently moved on to a boutique law firm to gain experience in working with early stage companies on M&A transactions, which led her to Lightbox in 2018.

Awanti Golwilkar - Mehendale

Dr. Awanti Golwilkar-Mehendale is the Head of Laboratory at A. G. Diagnostics, a state-of-the-art, NABL Accredited laboratory as per ISO 15189:2012 requirements. She has over 20 years of experience in Pathology and Diagnostics with specialization in routine as well as specialized test reporting including Histopathology & Immunohistochemistry and Immunofluorescence based tests. In her position as Head of Laboratory, she manages the day-to-day operation and administration of A.G. Diagnostics and is responsible for implementing and maintaining quality control measures in the lab as per prescribed requirements. During the COVID-19 pandemic, she made A. G. Diagnostics the first private lab in Pune and amongst the first few labs in India to be authorized for COVID-19 PCR testing. In addition to her work at A. G. Diagnostics, she also manages the overall working of the Dr. D. Y. patil Medical College, Hospital & Research Center Pimpri, Clinical Laboratory Setup (DPU-CCL) for the last 5 years. She was also an advisor during the setting up of the Clinical Laboratory Department at Symbiosis University Hospital & Research Center (SUHRC), Lavale. Dr. Awanti Golwilkar-Mehendale has an MBBS and an MD in Pathology & Diagnostics from B. J. Medical College, Pune.

Sanjay Kanvinde

Sanjay Kanvinde is the co-founder & general partner at Lavni Ventures, a deep-tech driven impact investment firm. Sanjay also serves as a board advisor, mentor or trustee at several startups, charities and social organizations. Prior to his current role, Sanjay had a full career in the Oil & Gas Industry with SLB (formerly known as Schlumberger). Over different international assignments he has worked in the functional areas of Research & Development, Knowledge Management, Corporate IT Management, Business Development and Operations. Sanjay has a MSEE degree from the University of Texas, Austin and a BE degree from the College of Engineering, Pune.

Amey Mashelkar

Ashutosh Pathak

CTO, DeepTek.ai. Ashutosh has previously co-founded and partnered several tech ventures, including Covelix Inc. based in Redmond, USA, which was acquired by a large global company. He is a seasoned computer engineer with 20+ years of experience in technology industry, building and scaling tech-based businesses and has owned responsibility for development of various tech products. He also held key positions in Microsoft, USA.

Nandini Sahasrabuddhe, PhD

Dr. Nandini Sahasrabuddhe has over a decade of experience in the personalized medicine space, and has led initiatives in applying generative AI and large Language Models to build a comprehensive biomedical knowledge base for interpretation of clinical NGS data. Her work in personalized medicine spans various disease areas including somatic and inherited diseases and the use of technology to better cancer care. A scientist by training, she specializes in cancer biomarker research and integration of various omics technologies, resulting in publications in prestigious journals like Nature and Nature Communications among over 40 peer-reviewed international publications. Her career has been defined by her commitment to advancing precision medicine and cancer care through cutting-edge technologies. Outside of her professional pursuits, she is a watercolor artist and a music enthusiast, passions that bring balance and creativity to her work in science.

Gaurav Tripathi

Gaurav Tripathi is a serial entrepreneur, co-founder, Group CTO, and member of the Executive Board at Innoplexus AG and Board Member at Amrit AG. He studied at IIT Bombay and has 18+ years of experience across multiple startups working in Video, Big Data, Blockchain, and AI. He co-founded Innoplexus, now known as the "German AI champion in Life Sciences" working with top 30 pharma companies globally. As Group CTO, he led the team to build an IP portfolio of 145+ patents in areas around AI, out of which 45 have him as an inventor.

Premnath Venugopalan, PhD

Dr Premnath is Head, NCL Innovations at CSIR-NCL and Founder Director, Venture Center (National award winning inventive enterprises and deep tech incubator). Dr Premnath is a technology developer, innovation and incubation manager, startup mentor and a co-founder of 2 medtech startups. One of his inventions -- a breakthrough material for hip and knee joint replacements — has been implanted in more than a million patients worldwide. Another technology for porous maxillo-facial implants has been implanted in thousands of patients in India and abroad. He has provided leadership for teams that have won National awards for technology development, intellectual property management and business incubation. He is chemical engineer and an alumnus of MIT in the US, IIT-Bombay (Distinguished Alumnus, 2022) and has been a Chevening Technology Enterprise Scholar in Cambridge, UK.

Organizing Team (in alphabetical order of last names)

Organized by	
Social Innovations at Venture Center	Venture Center is committed to Social innovation and entrepreneurship. We actively nucleate and nurture enterprises that focus on solving socially important problems and build sustainable entities (for profit or not-for-profit) to deliver the solutions to society. Focus areas at Venture Center include affordable health and nutrition, empowering farmers, clean energy, sustainable resource utilization, environment and circular economy, water, sanitation, hygiene and any other social sectors that can leverage Venture Center's innovation ecosystem. More:http://www.venturecenter.co.in/socialinnovations
BFI BIOME NETWORK	BFI-BIOME's mission cuts across traditional boundaries by encompassing both upstream and deep science, driving innovation that leads to transformative health solutions. BFI-BIOME aims to bring leading researchers, technologists, and innovators together in the form of a network to discuss, identify, collaborate and innovate in the biomedical sector to solve pressing health challenges. More: https://www.venturecenter.co.in/bfi-biome/

Supported by	
BLOCKCHAIN FOR IMPACT	'Blockchain for Impact' carries forward the baton of the Crypto Relief Fund, a phenomenon that came to the fore at the peak of the second COVID wave in 2021. The relief fund mobilized resources from the global blockchain community and managed to make a positive dent in the healthcare system of India. More: https://www.blockchainforimpact.in/
VENTURE CENTER	Venture Center is a national award winning deep tech and science-based business incubator approved by the Ministry of Science and Technology, Govt of India. It aims to nucleate and nurture knowledge based enterprises. It does this by creating and maintaining a rich and supportive ecosystem for inventive enterprises that includes a large mentor network, funding options including 4 seed funds, scientific/ analytical/ prototyping facilities, specialized advisory capabilities, numerous events etc. It empowers scientists, engineers, clinicians and other knowledge workers to take their ideas from lab to market. It is structured as an independent, non-profit company and charitable organization that is hosted by CSIR-National Chemical Laboratory, Pune. The Venture Center was founded in 2007. Venture Center has been recognized with the National Award for Technology Business Incubators (2015), AABI (Asian) Incubator of the Year Award (2018), National Entrepreneurship Award under Ecosystem Builder Category (2019), Biospectrum No 1 Bioincubator of India (2022) and National Award for Incubators for Nurturing IP (2021 & 2022). More: http://www.venturecenter.co.in/