





Theme: Deep Tech - The Future Beckons

Venue : BIC, Domlur, Bengaluru

June 6th				
Main Hall	Hall 1& 2 – 1 st Floor	Library – 2 nd Floor		
3:30 PM - 4:00 PM	3:30 PM - 3:50 PM	3:00 PM – 5:30 PM		
Registration + Visit to booths &	Session: Survey of Robotics	Robotics Workshop: Comprehensive dive into NVIDIA robotics		
Registration + Visit to booths & Startup showcase				
		Jetson hardware through ISAAC ROS. The workshop will further delve into the integration of deep learning models, like YOLO, with ISAAC SIM and ROS, providing a holistic understanding of how these technologies can be combined to create sophisticated robotic systems. By the end of the session, participants can expect to have a solid grasp of NVIDIA's robotics ecosystem, enabling them to apply these cutting-edge technologies to their own robotic projects or research endeavours. Prerequisites: Knowledge on Basic ROS; Carrying Laptop with GPU/Jetson will be advantageous.		

4:00 PM - 5:00PM	3:50 PM – 4:40 PM	
nauguration	Session: Robotics in use	
	Panellists:	
	- Dr. Pradeepkumar Sundarraj, Kelvin6k	
	Robotic 3D Construction	
	- Nikhil Ramaswamy, CynLR visually	
	intelligent robots that can manipulate	
	any object [VC]	
	- Aditya Varma Sagi, Chirathe Robotics	
	- Kaushik Sampath, Twara Robotics	
	Moderator:	
	Dr. Aloknath De, CTO, XTranssolutions	
	Chair, AgriEnIcs, MeitY-Gol Former	
	CTO & CVP, Samsung; MD, ST-Ericsson	
	Angel Investor Adjunct Prof. IISc BoG	
	DA-IICT	
	Description : Panellists are using or	
	developing robots for uses in different	
	industries and tasks. The session will	
	explore usage, engineering, economics	
	and learnings and the way forward for	
	the startups in the robotics ecosystem	

5:00 PM - 5:20 PM	4:40 PM - 5:25 PM	
Keynote address by Dr.Ajai	Session: Private 5G Networks	
Chowdhry, Founder and HCL,	Speakers: Pamela Kumar CSO, FSID at	
Chairman, EPIC Foundation	IISc. Ex-DDG of TSDSI	
Al for the world in the context of	Suraj Prakash CEO, TexMin Foundation,	
India as a Product Nation	IIT Dhanbad for Mining	
	Abhijit Chaudhary NIral Networks	
	Description : Industrie 4.0 and factories	
	need reliable and low latency robust	
	economical networks and cellular	
	operators may not see enough device	
	density in off-city locations. 5G allows	
	private networks which can be	
	architected to different use cases on	
	data bandwidth, latency and reliability.	
	This session will explore use cases and	
	open source enablers	
6:10 PM - 6:40 PM		-
Theme Address by Arvind Tiwary,		
Chair Emeritus Matrix Forum		
Deep Tech - The Future Beckons		
6:45 PM - 7:00 PM		
Announcements: You heard it first at		
Matrix 2024		
7:00 PM - 8:30 PM		
Matrix Start Up Awards Celebrating		
10 years of Matrix Summit (erstwhile		
IoTNext) - Past winners		
Matrix Start Up Awards 2024.		
Felicitation of winners.		
8:30 PM		
	Dinner by Invite	

June 7th			
Registration and KeyNotes	AgriTrack	Gen Al Track	Industrial Track
9:00 AM - 9:30 AM	10:30 AM - 11:45 AM	10:30 AM - 11:00 AM	10:30 AM - 11:30 AM
Registeration	Precision Agriculture Technologies	Al in EdTech	Sustainability: Decarbonisation in
	Panellists:	Speaker: Tanuja Ganu, Principal	heavy industries
	Benjamin Swan, Founder & CEO, BECO	Research SDE Manager, Microsoft	Panellists:
	Verdant	Research India	Suruchi Rao, CEO & Co-Founder, Ossus
	Varun Prabhakar, Agtech Evangelist,	Description: Quality education at	Biorenewables
	AgWise	reasonable cost is paramount in skilling	Deepak Krishnan, Deputy Director, World
	Shruti, Founder & CEO, BacAlt	Bharat at scale. The ability to impart	Resources Institute
	Shashikumar, Founder & CEO,	relevant current and adaptive coaching	Prof Arnab Dutta, Associate Professor, IIT
	Akshayakalpa	and education to the primary and	Bombay [VC]
	Subhankar Pandey, Co-founder & CTO,	secondary schooling at reasonable	Moderator:
	InQube	cost has been a struggling journey for	Rohan Choukkar, VP Investments, Bharat
	Hetendra Singh, Founder, Segritech	many efforts and startups.	Innovation Fund
	[VC]	Shiksha Copilot aims to develop	
	Moderator:	specialized generative AI copilots	
	Ashok Meda, CoFounder Director at	accessible to educators, farmers, and	
	Krishi Kalpa Foundation	small business owners.	
9:30 AM - 9:50 AM	11:45 AM - 12:30 PM	11:00 AM - 12:10 PM	11:30 AM - 12:30 PM
Keynote by Ravi Chhabria,	Supporting the Agri Value Chain	Al in Action	Data-driven manufacturing for
NetApp India, MD	Panellists:	Panellists:	sustainability
Building Intelligent IT	Deepak Verma, Domain Lead -	Hemanth Bharatha Chakravarthy -	
infrastructure for Al	Agriculture - ONDC	Legal - Cofounder Jhana.ai	
	Ramesh T, CGM - NABARD	Trisha Chatterjee- Drug Discovery -	
	Moderator:	Cofounder ImmunitoAl	
	Kishor Jagirdar, President, Vision	Ankit Ratan - BFSI - Cofounder Signzy	
	Karnataka Foundation	Dilip Ittyera CEO Cogniswitch [VC]	
		Abhay Nawathey Cloudura - sales Co	
		pilot	
		Moderator:	
		Arvind Tiwary, Chair Emeritus Matrix	
		Forum	
		Description: GenAl is the current thing.	
		Closed models like GPT4, Claude,	
		Gemini, Cohere have seen overflowing	
		open source models. Hugging Face the	
		default app-market for models has over	
		1,000 +. We explore a diverse set of	
		usage, the engineering effort, the	

		implicit economics and learning to evolve.	
9:50 AM - 10:10 AM		12:10 PM - 12:30 PM	
Keynote by Dr. Nikhil		The GenAl Cambrian Period	
Varma, Tech Lead,		Speaker: Suparna Bhattacharya HPE	
Algorand Foundation India		Fellow at AI Research Lab, Hewlett	
The Future of Blockchain:		Packard Labs	
Navigating the Cycles of		Description: With over 20,000+ Models	
Centralization and		and applications on Hugging face we	
Decentralization		have a plethora of choices. Tools,	
		architecture, methods are also rapidly	
		changing with new approaches,	
		variations and refinements arriving like	
		a tsunami.	
		These advances are motivating the	
		evolution from models to model based	
		systems or platforms , such as LLM	
		OSes and other compound AI systems,	
		guided by intelligent model evaluation	
		techniques.	
	12:3	0 – 1:30 PM - Lunch	
	Workshops	Gen Al Track	DFM Track
1:30 PM - 2:15 PM - Gallery		1:45 PM - 2:30 PM	1:30 PM - 3:00 PM
_	ecision in Supply Chain: Manufacturing	Evaluating GenAl Models	Fireside Chat: Master Class for Start
and Mass Traceability with Bl		Panellists:	Ups in Electronics and IOT
	ion delves into applications of	- Sunayana Sitaram, Director of	Panellists:
	re being built for specialized traceability	Research Fellow program at Microsoft	Vivek Khanna , MD , Indic EMS
	r of Anveshak, a Bangalore-based	Research India	Electronics
-	que mass-based traceability system,	- Vijaya Kumar Ivaturi , Cofounder and	Ravi Pagar, VP Sales and Marketing,
which ensures the integrity and verification of goods as they move		CTO of Crayon Data, ex CTO Wipro	Millennium Semiconductor
through various stages of the supply chain. Meanwhile, the founder of		Moderator:	Abdullah Khan, President, iWave
	nsights into their approach to	- Roopa Narayan, Data Science,	Systems, Bangalore
manufacturing traceability, focusing on maintaining and verifying the		MetLife	Ananth Krishna, MD , iAMPS & Hz
	turing components. Key discussion	Description : Given plethora of models	Technology Solutions
points will include:		and new versions or editions almost	Moderator:
	s: An exploration of blockchain	every quarter how do you measure	Sanjeev Keskar, CEO, Arvind
technologies that enable pre	cise tracking and verification	capacity or reliability or accuracy of	Consultancy and Executive Director, EPIC
capabilities.		these models? Current benchmarks	Description: Key aspects of Design to
		come from an academic setting and	Manufacture

Impact on Supply Chain Operations: How these technologies	may not even be measuring the right	• Design
transform traditional supply chain operations, reduce fraud, and	thing. Models also may have seen	Compliance
increase efficiency.	copies of these questions and may	Supply Chain
Case Studies: Specific examples from both Anveshak and Arvo,	score very well but fail on real world or	Manufacturing
showcasing the real-world benefits and challenges of implementing	out of training data.	
these systems.	Multilingual evaluation with mix code (
Future Directions: Insights into future innovations in blockchain for	Hindi-English) is another hurdle.	
further enhancing supply chain transparency and security.	Microsoft Research is running a	
This panel aims to provide a deep dive into how blockchain	Pariksha project of interest	
technology can be tailored to meet specific needs within the supply		
chain sector.		
2:15 PM - 5:45 PM - Gallery	2:30 PM - 2:50 PM	
IDEATION WORKSHOP: Reimagining Business Models with	Fireside Chat	
Blockchain: A Sector-Based Ideation Workshop	Speaker: Sambit Sahu OlaKrutim head	
Instructor: Dr. Nikhil Varma with Algorand Community Members	Silicon	
Description: This workshop is designed as an intensive ideation	Description : Compute capacity is	
sprint where participants will learn to redefine and transform	critical for GenAi both now and in future	
business models using blockchain technology. The workshop will	as models are scaling up and need	
begin with a presentation that introduces essential tools and	100X more capacity each generation.	
concepts needed to understand and leverage blockchain in various	These place demands on power and	
business sectors. Key components of the workshop include:	cooling and render cost/inference and	
Introduction to Business Transformation: An initial presentation to	latency/inference in zones that may not	
equip participants with knowledge about how blockchain can	be viable to serve billions of queris per	
revolutionize business frameworks and revenue streams.	day . OlaKrutim has an Al Xcceleration	
Sector-Based Breakout Sessions: Participants will be divided into	plan.	
groups based on sectors such as healthcare, finance, education, and		
manufacturing. Each group will tackle a specific business challenge.		
Ideation and Model Development: Guided by facilitators, groups will		
develop innovative business models that incorporate blockchain to		
solve their sector-specific problems, focusing on how businesses can		
reconfigure operations and manage new revenue streams.		
Presentations and Collaborative Feedback: Groups will present their		
new business models to a panel of blockchain experts, encouraging a		
collaborative and iterative approach to ideation.		
Pre-reading Material: Participants will receive articles and case		
studies on blockchain applications in various industries to prepare		
them for the workshop.		
Ideation Tools: A toolkit will be provided that includes frameworks		
and templates to assist in the business model reconfiguration		
process.		

This session is intended to foster innovative thinking and practical application, ensuring participants leave with actionable insights on integrating blockchain into their business strategies.		
3:00 PM - 5:30 PM – Library 2 nd Floor	3:00 PM - 4:15 PM	
Develop a lite app using a LLM driven recommendation with hyperlocal data for food ordering Instructor: kAlron(TBA)	Desi LLM 'Panellists: Nikhil Malhotra Project Indus CIO Tech	
Description: Session for developers and entrepreneurs to get a hands on interaction to the full range in developing a GenAI application. The workshop uses web based development and API calls to a host Model.	Mahindra Vishnu Vardhan , Hanooman LLM, CEO VIzzhy Ankush Sabharwal CoRover,ai	
	(BharatGPT) Moderator: Leslie D'Monte Tech buff at Mint,	
	Author of AI Rising: India's AI Growth Story, co-host of AI Rising podcast Description: English Models have large data sources and well proven	
	development path. They suffer in conversations in desi dialects and also are weak in use cases for services	
	outside English. Chinese Models have managed to reach similar levels and there are many work under way in low	
	resource languages like Finland, Japanese ,Arabic as well as 22 major Indian languages. We explore the landscape and the path	
	ahead	
	4:15 PM - 5:15 PM	
	Introduction to Hanooman LLM for Developer Enterprise users	
	Speaker: Harsha Vardhani Co founder SML & Hanooman	
	Description: Introduction to Hanooman LLM and using as	
	enterprise and developing apps. 2hrs	
	hours session on the new model expected May 2024 exploring its	
	features and how to use it for enterprise	

users and develop custom apps using	
the base model	