



# International Workshop on Big Data and Cloud Computing

14<sup>th</sup> & 15<sup>th</sup> April, 2025 @ **NED University of Engineering and Technology, Karachi**

Day 1 (14th April, 2025) – Session 1: Inauguration (Venue: Asma M. Hashmi STEM Centre, NEDUET)	
9:00 AM – 10:00 AM	Registration - Meet and greet with fellow attendees.
10:00 AM – 10:30 AM	Welcome Addresses <ul style="list-style-type: none"><li>• Dr. Muhammad Ali Ismail (Scientific Director Exascale Lab).</li><li>• Dr. Naveed Arshad (Director, NCBC Center Secretariat).</li></ul>
10:30 AM – 11:00 AM	Keynote talk: Dr. Affan Syed - Senior Director of Technology and Solutions Emumba. "Software Design in the age of LLMs: When LLMs as Human is the correct analogy!"
11:00 AM – 11:30 AM	Keynote talk: Mr. Manuja Karunaratne - Head of National Science Library & Resource Centre of National Science Foundation. Sri Lanka.
11:30 AM – 12:10 PM	Talk by Dean, VC-NEDUET and Chief Guest
12:10 PM – 12:25 PM	Shields Distribution Ceremony and Group Photo.
12:30 PM – 2:00 PM	Lunch & Namaz Break - Venue: Senate Hall, NEDUET.



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## Day 1 – Session 2: (14<sup>th</sup> April, 2025)

	<p><b>Panel Discussion</b></p> <p><b>Venue:</b> Asma M. Hashmi STEM Centre</p>	<p><b>Workshop 1</b></p> <p><b>Venue:</b> Smart Classroom, CIS</p>	<p><b>Workshop 2</b></p> <p><b>Venue:</b> HPCC – NCBC</p>
<p>2:00 PM – 4:00 PM</p>	<p><b>Data-Driven Economies: Harnessing Big Data for Sustainable Growth and Industrialization</b></p> <ul style="list-style-type: none"> <li>• Dr. Naveed Arshad (Director, NCBC Center Secretariat).</li> <li>• Mr. Imran Moinuddin (Senior Vice President, VentureDive Sol).</li> <li>• Mr. Khurram Rahat (NSC Member, Founder, CEO, Director and Senior Consultant).</li> <li>• Mr. Jawad Raza (EVP - Head of Data Analytics, Big Data, AI at Meezan Bank).</li> <li>• Mr. Shoukat Bizinjo (Additional Director, State Bank of Pakistan (SBP)).</li> <li>• Dr. Tahir Zaidi (Thematic Expert National Compliance Centre Ministry of Commerce).</li> </ul> <p><b>MODERATORS:</b></p> <ul style="list-style-type: none"> <li>• Ms. Faiza (VP Dep Head App Security, NBP).</li> <li>• Dr. Faizan (Associate Professor, NEDUET).</li> </ul>	<p><b>Digital Twin of a Data Center to develop Heat Map for Energy Efficiency.</b></p> <p><b>By</b></p> <p><b>Dr. Imran Akhtar</b></p> <p>(Professor &amp; Head of Department, National University of Sciences &amp; Technology, Pakistan).</p>	<p><b>From Data to Decision: Fine-Tuning LLMs for Wheat Advisory in Local Settings.</b></p> <p><b>By</b></p> <p><b>Dr. Saqib Ali</b></p> <p>(Precision Agriculture Lab, Center for Advanced Studies in Agriculture and Food Security, University of Agriculture Faisalabad, Pakistan).</p>

## Day 1– Finishes



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## Day 2 – Session 1: (15<sup>TH</sup> April, 2025)

	<p><b>Panel Discussion</b></p> <p><b>Venue:</b> Asma M. Hashmi STEM Centre</p>	<p><b>Workshop 3</b></p> <p><b>Venue:</b> Smart Classroom, CIS</p>	<p><b>Workshop 4</b></p> <p><b>Venue:</b> HPCC – NCBC</p>
<p>9:30 AM – 11:00 AM</p>	<p><b>Data-Driven Healthcare: Bridging Technology, Access, and Equity.</b></p> <ul style="list-style-type: none"> <li>• Prof. Dr. Bilal Ahmed Usmani (Assistant Professor, Department of Community Health Sciences Section Head, Epidemiology and Biostatistics Section, AKUH).</li> <li>• Prof. Dr. Rauf Ahmed Shams Malick (Chairman, Department of Computer Science GUTECH, Al Ghazali University).</li> <li>• Prof. Syed Jamal Haider Zaidi (Assistant Professor, Iqra University).</li> <li>• Dr. Nasir Luck (HoD, Department of Gastroenterology, SIUT).</li> <li>• Dr. Eraj Humayun Mirza (Chairman, Bio-Medical Department, NEDUET).</li> </ul> <p><b>MODERATOR:</b></p> <ul style="list-style-type: none"> <li>• Dr. Majida Kazmi (Director, Asma M. Hashmi STEM Centre).</li> </ul>	<p><b>Generative AI and Large Language Models</b></p> <p><b>By</b></p> <p><b>Dr. Usman Qamar, T.I</b></p> <p>(Tamgha-e-Imtiaz   Prof of Data Science &amp; GenAI, NUST).</p>	<p><b>End-to-End Big Data Pipeline Automation with Apache Airflow</b></p> <p><b>By</b></p> <p><b>Mr. Uzair Abid</b></p> <p>(Team Lead, Exascale Open Data Analytics Lab, NCBC – NEDUET).</p>
<p>11:00 AM – 11:30 AM</p>	<p>Networking Hi-Tea</p>		



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## Day 2 – Session 2 (15<sup>TH</sup> April, 2025)

	<p><b>Panel Discussion</b></p> <p><b>Venue:</b> Asma M. Hashmi STEM Centre</p>	<p><b>Workshop 5</b></p> <p><b>Venue:</b> Smart Classroom, CIS</p>	<p><b>Workshop 6</b></p> <p><b>Venue:</b> HPCC – NCBC</p>
<p><b>11:30 AM</b> – <b>1:00 PM</b></p>	<p><b>Big Data for Planetary Resilience: Data- Driven Strategies for Climate, Biodiversity, and Resource Management.</b></p> <ul style="list-style-type: none"> <li>• Dr. Muhammad Hanif (Director General, Space Application Research Center, SUPARCO, Karachi).</li> <li>• Prof. Dr. Syed Imran Ahmed (Director Panjwani Hissar Water Institute, NEDUET).</li> <li>• Mr. Shoaib Abdul Razzaque (Coordinator Marine Program, WWF - Pakistan).</li> <li>• Prof. Dr. Muhammad Khurram (Professor CIS NEDUET and Director Research Center for Artificial Intelligence).</li> <li>• Representative of MOCC</li> </ul> <p><b>MODERATOR:</b> Prof. Dr. Atif Mustafa (Chairman Environmental Engg. NEDUET).</p>	<p><b>Deep Ensemble Learning and its applications on Image / Video Analytics</b></p> <p><b>By</b> <b>Dr. Muhammad Atif Tahir</b>  (Prof. Institute of Business Administration, IBA, Karachi).</p>	<p><b>Text to Speech Synthesis &amp; Speech Corpus Development</b></p> <p><b>By</b> <b>Ms. Sahar Rauf</b>  (Assistant Manager Research, Center for Language Engineering, UET Lahore).</p>
<p><b>1:00 PM – 2:00 PM</b></p>	<p>Lunch &amp; Namaz Break - Venue: Senate Hall NEDUET</p>		



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Day 2 – Session 3: Closing			
	<p align="center"><b>Panel Discussion</b></p> <p><b>Venue:</b> Asma M. Hashmi STEM Centre</p>	<p align="center"><b>Workshop 7</b></p> <p><b>Venue:</b> Smart Classroom, CIS</p>	<p align="center"><b>Workshop 8</b></p> <p><b>Venue:</b> HPCC – NCBC</p>
<p><b>2:00 PM</b> – <b>3:30 PM</b></p>	<p align="center"><b>Data-Driven Cities: Leveraging Big Data for Inclusive and Sustainable Urban Systems &amp; Modern Education.</b></p> <ul style="list-style-type: none"> <li>• Prof. Dr. Noman Ahmed (Ag-VC &amp; Dean Faculty of Architecture and Sciences (ASC), NEDUET)</li> <li>• Ms. Noshaba Awais (Director, Research for Innovation, HEC).</li> <li>• Mr. Manuja Karunaratne (Head of National Science Library &amp; Resource Centre of National Science Foundation, Sri Lanka).</li> <li>• Mr. Yousuf Iqbal (SE / Manager, PPF, TEB, KDA).</li> <li>• Prof. Dr. Mir Shabbar Ali (Dean, Sir Syed University of Engineering and Technology).</li> </ul> <p><b>MODERATOR:</b></p> <ul style="list-style-type: none"> <li>• Prof. Dr. Muhammad Atif Tahir (Institute of Business Administration, IBA, Karachi).</li> </ul>	<p align="center"><b>Data meets Biology and Medicine: understand and browse big data in biology and medicine with the interdisciplinary experts.</b></p> <p align="center"><b>By</b></p> <p align="center"><b>Dr. Faisal Khan</b> (NCBC, Precision Medicine Lab).</p>	<p align="center"><b>Build Your First AI Agent with Python &amp; Open AI.</b></p> <p align="center"><b>By</b></p> <p align="center"><b>Mr. Huzaifa Shahbaz</b> (Data Acquisition, Processing and Predictive Analytics Lab, Ziauddin University).</p>
<p><b>3:30 PM – 4:10 PM</b></p>	<p align="center"><b>Conference Closing – Talk by Chief Guests (Venue: Asma M. Hashmi STEM Centre, NEDUET)</b></p>		
<p><b>4:10 PM – 5:00 PM</b></p>	<p align="center"><b>Shields Distribution and Group Photo. &amp; Networking Hi-Tea. / Day 2 – Workshop Finishes</b></p>		