INDEA-2026
International Conference on
Next-Generation Data Engineering and Analytics

ORGANISED BY: University of Salford, Manchester, UK

On

21st- 22nd August 2026.

************* CALL FOR PAPERS ***************

SPECIAL SESSION ON

AI-Driven Data Engineering and Intelligent Analytics

SESSION ORGANIZERS:

Dr. Lokesh Jain, Associate Professor, Vivekananda Institute of Professional Studies-Technical Campus (VIPS-TC), Delhi, India, nsitlokesh.jain@gmail.com

EDITORIAL BOARD: (Optional)
[Name, University or Organization, Country, e-mail]

SESSION DESCRIPTION:

The rapid evolution of Artificial Intelligence (AI) has fundamentally transformed the landscape of data engineering and analytics. Traditional data pipelines, storage architectures, and analytical models are increasingly being augmented or replaced by AI-driven approaches that enable automated data processing, intelligent decision-making, and real-time insights. This special session aims to explore cutting-edge research, methodologies, and applications that integrate AI techniques with next-generation data engineering and intelligent analytics frameworks. The session focuses on the design, development, and deployment of scalable data architectures powered by machine learning, deep learning, and generative AI. Emphasis will be placed on intelligent data ingestion, adaptive data pipelines, automated feature engineering, explainable analytics, and AI-enabled decision support systems. This session invites original research contributions, case studies, and practical implementations from academia and industry that demonstrate innovative solutions and future directions in AI-driven data engineering and intelligent analytics.

RECOMMENDED TOPICS:
Topics to be discussed in this special session include (but are not limited to) the following:
- AI-Enabled Data Engineering Architectures
- Intelligent Data Ingestion and Preprocessing
- Automated and Self-Adaptive Data Pipelines

- Machine Learning-Based Data Quality Management
- AI-Driven Feature Engineering and Selection
- Scalable Big Data Analytics using AI
- Real-Time and Streaming Analytics with AI
- Deep Learning for Structured and Unstructured Data Analytics
- Generative AI for Data Analytics and Insight Generation
- Explainable and Interpretable AI Analytics
- Cloud-Native and Distributed AI Data Systems
- Federated and Privacy-Preserving Data Analytics
- Graph Analytics and Knowledge-Driven Intelligence
- AI-Based Decision Support and Recommendation Systems
- Ethical, Secure, and Trustworthy AI-Driven Analytics

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[AI-Driven Data Engineering and Intelligent Analytics]** *on or before* **[30th March 2026]**. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at https://indea-conf.com . All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify [**AI-Driven Data Engineering and Intelligent Analytics**] at the top (above paper title) of the first page of your paper.

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