Next-Gen Data Science
Trends, Tech & Transformation

Thursday, May 15, 2025

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Disclaimer

The views, opinions, and content shared during this session are solely my own and are intended for educational and discussion purposes only. They do not represent the official stance, policies, or perspectives of my organization or any affiliated entity. This is a candid, open conversation aimed at enriching your understanding and encouraging dialogue in the field of Data Science.

About Me 📊 ✨

Education

Amity Institute of Applied Sciences
2025 Ph.D. (Statistics)

University of Lucknow
2011 M.Sc. (Biostatistics)

University of Lucknow
2008 B.Sc. (Statistics)

Professional Journey (~14 Years)

Optum
Pharmacy Fraud, Data Products, Medication Adherence

genpact
Contact Center, Data Products, Operations Analytics

SUTHERLAND
Data Products, Capital Market, HR Analytics, Aviation

cognizant
Banking, Data Products, OEM Manufacturing

serco
Contact Center, Banking, Infrastructure

tcs TATA CONSULTANCY SERVICES
Banking – Cards & Payments

Xchanging
Insurance, Spend Analysis, Operations

Interests

- Generative AI
- Low Resource Machine Learning
- Privacy & Ethics in AI
- Responsible use of AI
- Explainable AI (XAI)
- Information Systems
- Cloud Computing
- AI for Edge Devices

A2025 **Logistics**

Online Infrastructure

- GitHub Account
- Databricks Community Account
- Google Colaboratory
- OpenAI Platform Account
- Pinecone API Account
- Hugging Face Account

Software (Local Environment)

git

CLI

python™

Visual Studio Code

Microsite and Resources

- Workshop Microsite

A2025 Agenda

- Introduction to Data Science

- Source Code Management & GitHub

- Building a Data Science Solution

    - A Workflow

    - Building a regression solution

    - Building a Classification solution

    - Using Agents for Data Science Developments

- Managing Data Science in a Big Data Environment

- Introduction to Generative AI

    - Building Generative AI Solution

    - Building Generative AI Solution (RAG Based)

    - Building an Agent

- Introduction to Cloud

Thank You

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