



**REVIANA**  
INNOVATIONS PVT. LTD.  
Innovation • Informatics • Impact



**icmr**  
INDIAN COUNCIL OF  
MEDICAL RESEARCH

**NITHR**  
NATIONAL INSTITUTE OF  
TRIBAL HEALTH RESEARCH

ICMR- National Institute of  
Tribal Health Research (NITHR)  
Jabalpur, Madhya Pradesh

2-DAY HANDS-ON WORKSHOP

# LARGE LANGUAGE MODELS (LLMs) FOR CLINICAL & TRANSLATIONAL RESEARCH

(no prior coding experience required)

From Zero to Publishable Use Cases

Practical. Ethical. Reproducible. Research-Ready.



**INTERACTIVE**  
Demos + Guided  
Exercises



**NON-CODING**  
Approach for  
Researchers



**RESPONSIBLE &  
ETHICAL AI**  
Use



**PUBLISHABLE-  
GRADE**  
Outputs



**CERTIFICATE**  
of Participation

## 2-DAY HANDS-ON WORKSHOP OVERVIEW

Industrial-Academic certification.

### DAY 1 FOUNDATIONS → LITERATURE & EVIDENCE SYNTHESIS



LLMs from First Principles  
Concepts, capabilities, limitations  
& clinical relevance



Responsible & Ethical Use  
Privacy, bias, reproducibility, regulation  
& safe AI practices



LLMs for Systematic Reviews  
PICO, search strategy, screening,  
extraction, risk of bias



Meta-analysis with LLM Assistance  
Text to data, effect size extraction,  
narratives & integration with R/RevMan



### DAY 2 IPD, REAL-WORLD DATA & OMICS



IPD Meta-Analysis  
Variable harmonization, mapping CRFs,  
missingness & schema generation



OPD, CRF & Secondary Clinical Data  
Concept extraction, phenotyping,  
coding (ICD/SNOMED) & trends



LLMs for Omics Meta-Datasets  
Genomics, transcriptomics, proteomics  
interpretation & pathway insights



Build your Own AI agents for  
multistep tasks/workflows,  
and hands-on.

## WHAT YOU TAKE HOME



Prompt library for:

- Systematic review
- Meta-analysis
- IPD harmonization
- Omics interpretation



Reproducible workflow  
templates



Data extraction &  
harmonization  
frameworks



Ethical & responsible  
AI use guidelines



Publication-ready  
methods drafting  
support

## TOOL STACK

(NON-OVERWHELMING)



## MEET YOUR TRAINERS



**Dr. Apoorv Gupta**  
Ex- Consultant (Data Science)  
Reviana Innovation Pvt Ltd  
(Postdoctoral Fellow IDDO,  
Oxford University, UK &  
Teaching Fellow SAU, Delhi)

Experience:  
11+ years in Data Science &  
6+ years in Clinical Data Management  
Specialization:  
Database/Repositories Development,  
Machine Learning, CRO Management,  
Clinical Database Management, Malaria



**Dr. Jai Chand Patel**  
Sr. Bioinformatician,  
Reviana Innovation Pvt Ltd  
(Postdoctoral Fellow UNMC,  
Nebraska, USA &  
NPDF India)

Experience:  
13+ years in Bioinformatics &  
Machine Learning  
Specialization:  
Developing ML/DL pipelines for multiomics  
analysis, Integration of LLM / Joytor model  
with omics & clinical datasets



**Dr. Syed Areeb  
Shah Hussain**  
Data Scientist & Biostatistician,  
Reviana Innovation Pvt Ltd  
(Master Universiti Islam  
Antarabangsa, Malaysia &  
PhD, ACSIR)

Experience:  
12+ years in Vector Research &  
Data Science  
Specialization:  
Development of ML models to study climate  
effects of different vectors, LLMs for clinical  
research & epidemiology



**CHAIRMAN OF THE WORKSHOP**  
**Dr. Praveen Bharti**  
Director, NITHR  
Jabalpur, M.P.



**CO-CHAIRMAN OF THE WORKSHOP**  
**Dr. Abhinay Kumar Singh**  
Director,  
Reviana Innovations Pvt. Ltd.



**CONVENOR OF THE WORKSHOP**  
**Dr. Ravindra Kumar**  
Sc-D, NITHR  
Jabalpur, M.P.

**31st July 2026  
To  
1st Aug 2026**

**WHO SHOULD ATTEND?**

- Clinical Researchers
- Epidemiologists
- Biostatisticians
- Bio-informatics Professional Research Fellows
- Healthcare Professional

**WHY CHOOSE THIS WORKSHOP?**

- ✓ Designed for Non- Programmers
- ✓ Practical, Real-world Research use cases
- ✓ Hands-on Exercises with Real Datasets
- ✓ Focus on Responsible & Reproducible AI



**VENUE**  
NITHR, Jabalpur  
Madhya Pradesh

**DURATION**  
2 DAYS  
31st July and 1st Aug, 2026  
**Hands-On Learning**

- Demos
- Guided Practice
- Real Use Cases

**LIMITED SEATS!**  
**RESERVE YOUR SPOT NOW**  
Registration Fees  
Rs. 9999/- + GST  
**Inclusive of Food and Stay.**  
Early Registration  
Strongly Recommended

