The Intelligent Researcher: AI Tools for Data-Driven Research

Online MDP | Focus: Agribusiness, Social Sciences, Sustainability, Education, & Innovation

28th July to 1st August 2025

(3:30 PM to 6:30 PM)

In today's rapidly evolving academic research landscape, traditional methods and tools are no longer sufficient to meet the growing demands of modern challenges. The increasing volume and complexity of data—both primary and secondary—present researchers with a critical need for innovative tools that can efficiently process, analyze, and synthesize this information. The integration of AI into the research process is no longer a luxury—it is an absolute necessity for those seeking to stay ahead of the curve in their respective fields. Whether it's automating the literature review, improving the accuracy of data analysis, or using AI-powered visualization tools to present findings, AI tools have become indispensable in modern research. These tools facilitate automated insights, predictive analytics, and advanced visualizations—enhancing the quality of research and driving more informed decision-making.

Researchers, faculty, and industry professionals often struggle with the complexity of modern research workflows—from literature review and problem identification to data analysis, visualization, and publishing. The 5-day programme, **"The Intelligent Researcher: AI Tools for Data-Driven Research,"** is designed to address these critical needs in today's research environment by providing participants with hands-on experience using cutting-edge AI tools such as ChatGPT, Elicit, Biblioshiny, and Canva, among others. This program covers the entire research process—from initial literature review, problem identification, and questionnaire design to more advanced aspects like data analysis (using SPSS, AMOS, R, and Jamovi), visualization, and publishing in quality journals. Participants will also learn how to integrate AI into storytelling, navigate ethical considerations, and discover funding opportunities—making it a well-rounded, future-focused program.

In fields as diverse as agribusiness, social sciences, sustainability, education, and innovation, the tools and techniques covered in this program will revolutionize how research is conducted—making it more efficient, impactful, and aligned with the digital, data-driven world. By embracing AI-powered research, you can overcome the limitations of traditional methods and accelerate your research journey—opening doors to new collaborations, funding opportunities, and academic excellence.
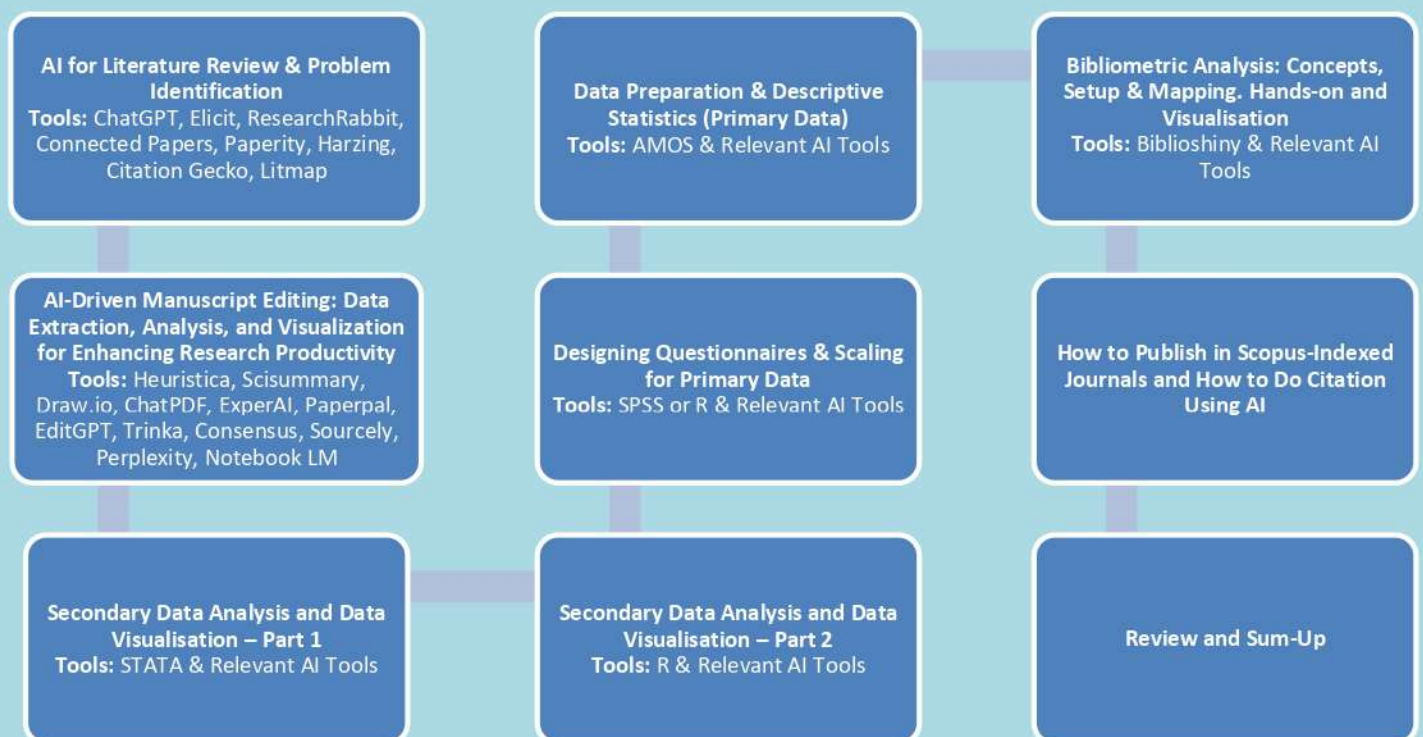
Target Audience

This program is perfect for those who wish to future-proof their research practices, ensuring that their work remains at the cutting edge of academic and professional progress. The Intelligent Researcher program is not just an opportunity to learn; it is an investment in your ability to shape the future of research in an AI-driven world. Specifically, this programme has been designed for:

- ✓ Industry professionals working in R&D, data analytics, and innovation.
- ✓ Academicians, researchers, and doctoral scholars looking to integrate AI tools into research.
- ✓ Policymakers and analysts interested in AI applications for data synthesis.
- ✓ Graduate and postgraduate students eager to adopt AI-driven research techniques.
- ✓ Non-technical researchers seeking to simplify AI concepts in their work.
- ✓ NGO and development sector professionals using primary/secondary data for impact assessment and reporting.
- ✓ Training & development professionals designing AI-integrated academic programs or corporate training modules.

Programme Coverage (Key Topics & Tools)

AI for Literature Review & Problem Identification **Tools:** ChatGPT, Elicit, ResearchRabbit, Connected Papers, Paperity, Harzing, Citation Gecko, Litmap	**Data Preparation & Descriptive Statistics (Primary Data)** **Tools:** AMOS & Relevant AI Tools	**Bibliometric Analysis: Concepts, Setup & Mapping. Hands-on and Visualisation** **Tools:** Biblioshiny & Relevant AI Tools
AI-Driven Manuscript Editing: Data Extraction, Analysis, and Visualization for Enhancing Research Productivity **Tools:** Heuristica, Scisummary, Draw.io, ChatPDF, ExperAI, Paperpal, EditGPT, Trinka, Consensus, Sourcely, Perplexity, Notebook LM	**Designing Questionnaires & Scaling for Primary Data** **Tools:** SPSS or R & Relevant AI Tools	**How to Publish in Scopus-Indexed Journals and How to Do Citation Using AI**
Secondary Data Analysis and Data Visualisation – Part 1 **Tools:** STATA & Relevant AI Tools	**Secondary Data Analysis and Data Visualisation – Part 2** **Tools:** R & Relevant AI Tools	**Review and Sum-Up**

Pedagogy:

This 5-day Management Development Program (MDP), with **3 hours of engagement each day**, blends **conceptual understanding** with **experiential learning**, ensuring participants can immediately apply tools and techniques to their own thesis research and professional projects. The pedagogy includes:

- *Interactive Lectures*: Expert-led sessions introducing core concepts and the research relevance of each AI tool.
- *Live Demonstrations*: Real-time walkthroughs of AI platforms to show their application in literature review, data analysis, visualization, and more.
- *Hands-on Exercises*: Guided practical tasks and tool-based activities to reinforce learning and build user confidence.
- *Case-Based Discussions*: Exploration of real research scenarios where AI tools have enhanced methodology and impact.
- *Collaborative Learning*: Peer interaction and discussions to foster idea exchange and interdisciplinary perspectives.
- *Immediate Application*: Participants will use live datasets, research topics, and examples for contextual learning.

The sessions progress in a *step-by-step research workflow*, from problem identification and data collection to analysis, visualization, and publishing — all infused with the power of artificial intelligence.
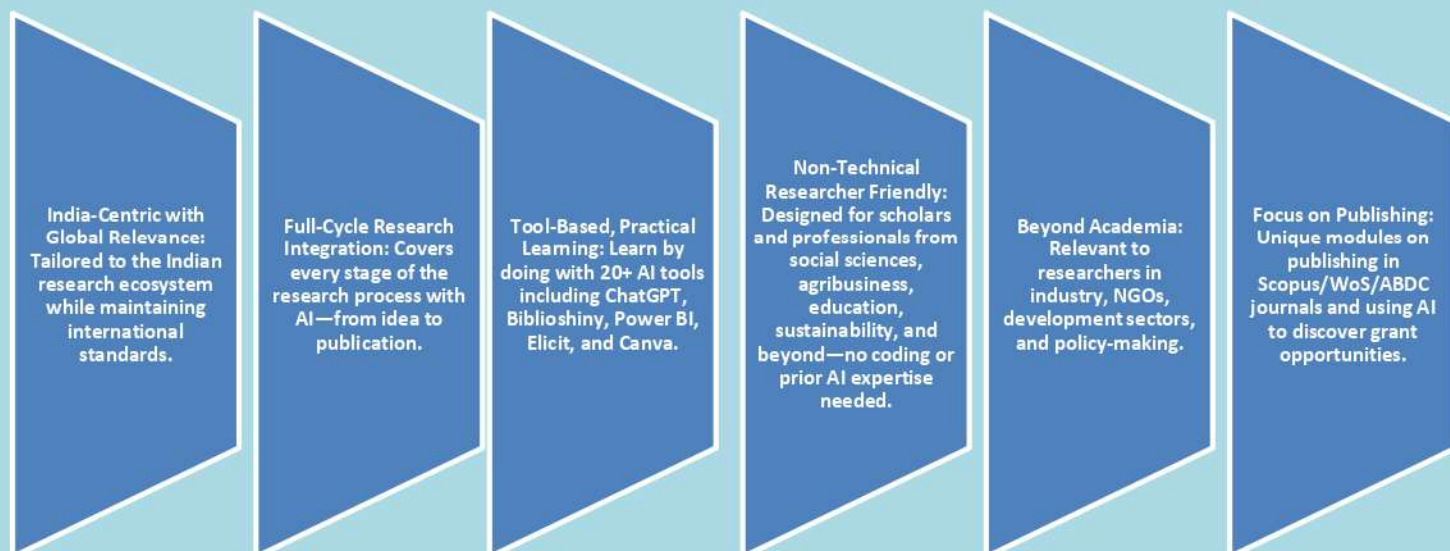
Course Outcomes

By the end of the workshop, participants gained:

- ✓ Hands-on experience with cutting-edge AI tools for literature review automation, manuscript editing, and dynamic data visualization.
- ✓ Practical exposure to machine learning techniques in research modeling, systematic reviews, and meta-analysis.
- ✓ Understanding ethical dimensions of AI in research, including plagiarism detection, bias, and responsible use.
- ✓ Insights into AI's role in open science, collaborative platforms, and the evolving landscape of academic communication.
- ✓ Ability to integrate AI across the research cycle to enhance productivity, accuracy, and innovation in scholarly work.

> *Certification: Certificate of Participation will be provided to all the participants*

What Makes This Programme Unique?

The Intelligent Researcher programme stands apart with its comprehensive, future-ready approach to integrating AI across the entire research journey. Unlike typical training that focuses on isolated tools or techniques, this 5-day MDP offers a **complete, hands-on experience**—from literature review and problem formulation to data analysis, storytelling, and publishing.

India-Centric with Global Relevance: Tailored to the Indian research ecosystem while maintaining international standards.	**Full-Cycle Research Integration:** Covers every stage of the research process with AI—from idea to publication.	**Tool-Based, Practical Learning:** Learn by doing with 20+ AI tools including ChatGPT, Biblioshiny, Power BI, Elicit, and Canva.	**Non-Technical Researcher Friendly:** Designed for scholars and professionals from social sciences, agribusiness, education, sustainability, and beyond—no coding or prior AI expertise needed.	**Beyond Academia:** Relevant to researchers in industry, NGOs, development sectors, and policy-making.	**Focus on Publishing:** Unique modules on publishing in Scopus/WoS/ABDC journals and using AI to discover grant opportunities.

> This is not just a skill-building course—it's a strategic investment for researchers who want to **future-proof their careers**, enhance impact, and lead in the age of intelligent research.

Program dates: *28th July (Monday) to 1st August 2025 (Friday) 3:30 to 6:30 PM*

Course Fee

- ✓ **Scholars & Students (Including Doctoral Scholars)**
  (Graduate, Postgraduate, and Doctoral Students;
  ₹2499/- (including GST)
- ✓ **Academicians, Researchers, and Policymakers**
  (Including Government officials, NGO/Development Professionals; Early Career researchers)
  ₹3499/- (including GST)
- ✓ **Think tanks, Analysts, Corporate Professionals & all others**
  (R&D, Data Analytics, Innovation, Corporate Trainers, etc.)
  ₹3999/- (including GST)

> Secure your spot 30 days in advance and unlock an exclusive 10% Early Bird discount — reward your foresight!

(Note: Fee includes a program fee, training fee, and post programme handholding for 1 month. The program will be conducted online. Early bird registrations may also receive priority access to resource materials and exclusive pre-event content.)

Programme Coordinators

Dr. Dinesh Jain is an academic and Associate Professor at the Indian Institute of Plantation Management Bengaluru (IIPMB). With a Ph.D. from IIM Ahmedabad and over 17 years of experience, he specializes in Agri-Entrepreneurship, Strategy, and General Management. He has taught at leading institutions including NIBM, EDII, IIMs, and IRMA. Dr. Jain has led impactful research for organizations like IFPRI, ADB, and the Ministry of Agriculture. A passionate educator, he has designed numerous training programs and actively mentors startups and entrepreneurs, contributing significantly to agribusiness development, rural finance, and India's innovation ecosystem.

Email: dineshjain@iipmb.edu.in| Mobile: +91-9724056975

Dr. Shreya Pal is an Assistant Professor at the Indian Institute of Plantation Management (IIPMB), Bengaluru, with over 4 years of experience in teaching and research. She holds a PhD in financial economics from the Indian Institute of Technology Kharagpur, an MPhil, and an MBA in Finance. With a strong academic background and extensive experience in educational administration, teaching, and research, her areas of interest include financial, environmental, energy, and Open empirical economics.

Email: shreyapal@iipmb.edu.in | Mobile: +91-9073307273

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About the Institute: IIPMB

IIPM Bengaluru was established in November 1993 by the Ministry of Commerce & Industry (MoC&I), Government of India, as an autonomous educational institute of higher learning. During the initial years, the institute closely worked with the plantation industry and Commodity Boards of India (CBI) for the development of the Agri- plantation sector. llPM conducted industry need-based short –duration capacity building and training programs for the stakeholders of the Agri-plantation sector that included planters, corporate manager s, executive member s of planter associations, small and medium entrepreneurs, officials, and scientists of the CBI, Ministries of Government of India, and officials of the State Development departments. With its continuing association with the Government bodies, commodity Boards of India, and 400+ private industry partners, as of May 2024, the Institute has organized 900 management development programmes benefitting 25902 stakeholders. IIPMB has created 49,000+ trained manpower supported by its multi-disciplinary faculty team with 100+man years of professional experience. llPMB's interventions are delivered through long and short-duration programs that include managerial, operational, policy, and research-related dimensions. What makes these programs distinctive is the approach used by llPMB to curate the content in a manner that has potential to benefit society at large.