

Senior Research Assistant - AI/ML

Reports to: Principal Investigator

Duration: 1 Year (extendable)

Vacancy: 1

Pay: Rs.75,000 to 1 Lakh per month

Role Summary:

The Senior RA (AI/ML) will lead the development of the core evaluation framework, including the weighted scoring engine, data analysis pipelines, and an agent-based simulation engine that estimates classroom-level effects of EdTech platforms. This individual will supervise Research Assistants and work closely with the software development team to integrate models into the open-source tool.

Key Responsibilities:

- Design and implement the multi-dimensional evaluation framework for AI based software tool.
- Build scoring algorithms that aggregate evidence from multiple sources and performance data into actionable scores.
- Develop agent-based simulation engines to estimate real classroom effects of EdTech interventions, and iteratively improve it using pilot data.
- Conduct statistical analysis of score-outcome relationships from pilot studies.
- Cross-verify vendor-provided data against independent evidence streams.
- Collaborate with the Learning Science team to ensure scoring dimensions align with pedagogical constructs.
- Mentor and supervise Research Assistants on data processing, model development, and experimentation.
- Document methodologies, contribute to research publications, and present findings to stakeholders.

Qualifications:

- M.Tech/MS or PhD (ongoing or completed) in Computer Science, AI/ML, Data Science, or a related field.
- Strong proficiency in Python, with hands-on experience in ML/AI frameworks (PyTorch, TensorFlow, scikit-learn).
- Understanding of foundation models, LLM-based agents, and their application to evaluation or simulation tasks.
- Experience with statistical analysis and data pipeline development.
- Familiarity with education data or EdTech platforms is highly desirable.
- Demonstrated ability to lead small research teams and manage technical workstreams.