



Job Title: Research AI Software Engineer (Junior and Senior positions possible including postdoc)

Reports to: Head KCDH-A and Director of LiGHT lab at KCDH-A

Location: Ashoka University, Sonipat, Haryana (KCDH-A)

Experience (in years):

- Bachelor's/Master's/PhD degree in Computer Science, Engineering, or related field.
- 3–5 years of proven experience
- Prior experience in health tech, open-source projects, or humanitarian applications preferred.

Start date: ASAP

Nature of work:

We are seeking a technically exceptional, ambitious and mission-driven Postdoctoral Researcher / AI Engineer to lead and/or join the local engineering and fine-tuning effort for PrAlmaan and MOOVE-India.

You will manage model versioning, hosting, and deployment pipelines, adapting large-scale medical LLMs for local use in India. This includes setting up and maintaining on-premise or cloud-based infrastructure, conducting fine-tuning and preference optimization experiments, and aligning models with clinical evaluation results generated through MOOVE.

This role requires a deep understanding of LLM training, reinforcement learning, and distributed computing, as well as the ability to collaborate closely with clinicians, data scientists, and researchers to ensure the models' contextual and ethical fit for India's healthcare system.

Access to large-scale HPC and GPU infrastructure (500K GPU hours) is available for ambitious research aims.

About MOOVE and PrAlmaan

The MOOVE platform, developed by the Laboratory for Intelligent Global Health and Humanitarian Technologies (LiGHT), is a global, open, and model-agnostic platform that enables clinicians to evaluate, compare, and improve medical AI models (LLMs).

Launched in 2024, MOOVE now includes over 1,000 clinicians from more than 20 countries and is used by global health organizations to ensure AI systems are safe, fair, and clinically applicable in diverse healthcare settings.



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MOOVE-India marks the first time this initiative is being implemented nationally, making it a pioneering effort to establish India as a global leader in the responsible evaluation of medical AI. The program will anchor MOOVE within India's diverse medical education and research ecosystem through national collaborations, teaching hospitals, and coordinated resident engagement.

PrAlmaan builds on this foundation as an India-specific initiative to evaluate and certify health AI responsibly, co-led by ICMR–NIDHR, KCDH-A, and LiGHT Lab.

This position is based in the LiGHT laboratory, hosted within the Koita Centre for Digital Health at Ashoka University

About Ashoka University:

Ashoka University - India's premier interdisciplinary teaching and research university. An institution that has become a beacon of academic excellence in less than 10 years since its inception. At Ashoka, we encourage you to embrace the new, push the boundaries for continuous learning, and adapt to a world of constant change, because we believe that each Ashokan is capable of becoming a thought leader.

As part of our thriving and committed workforce, you will:

- **Be Mission-Driven:** Champion interdisciplinary learning, innovative pedagogy, and academic rigor to transform Indian higher education.
- **Think Strategically:** Collaborate with visionary minds to shape the future of higher education through strategic planning and a forward-thinking approach.
- **Act Authentically:** Embrace authenticity and integrity, fostering an inclusive and supportive environment where every voice is valued.
- **Take Accountability:** Own your work and drive positive change, as an empowering individual seeking to make a meaningful contribution.
- **Build Collaboration:** Experience the power of teamwork and diverse perspectives, working collectively towards our shared goals.
- **Deliver Excellence:** Strive for excellence in all aspects, upholding the highest standards of academic excellence, student support, and professional development opportunities.

At Ashoka University, we are on a mission to redefine higher education and create a remarkable space where innovation and collaboration thrive. As a **pioneering force in interdisciplinary learning**, we **continually grow and adapt** to stay at the forefront of educational excellence with emphasis on inclusivity and equal opportunity. Our philosophy revolves around **care, well-being, and connection**, which are deeply embedded in everything we do.



When you join our community, you become part of an extraordinary journey in which you can unleash your potential and make a meaningful impact. Where education empowers, where innovation thrives, and where excellence and humility coexist. We truly believe the world will enrich itself when there is progress with purpose.

About KCDH-A:

The Koita Centre for Digital Health at Ashoka University (KCDH-A) is dedicated to building India's research capacity in digital health, AI in medicine, and responsible technology for healthcare. KCDH-A collaborates with global partners such as LiGHT Lab (EPFL, Harvard) and industry to drive frontier research and real-world deployment of safe, trustworthy AI systems in health.

About LiGHT Lab (Laboratory for Intelligent Global Health and Humanitarian Technologies)

LiGHT Lab is an international research group jointly hosted at:

- EPFL (École Polytechnique Fédérale de Lausanne) – School of Computer and Communication Sciences, Switzerland
- Harvard T.H. Chan School of Public Health & Ariadne Labs – USA
- Ashoka University (KCDH-A) – India

LiGHT builds safe, scalable, and context-aware digital health tools for real-world use, partnering with global and humanitarian organizations (WHO, MSF, ICRC, and national ministries of health). The lab works across AI, clinical research, and implementation science to bring trustworthy innovations to scale.

Role and Responsibilities:

- Lead local, privacy-preserving deployment and hosting of medical LLMs and related AI systems on AWS, GCP, or institutional servers, ensuring data security and compliance with Indian and international standards
- Manage model versioning, checkpoints, and repositories, maintaining reproducibility, transparency, and clear governance across teams
- Perform fine-tuning, preference alignment, and reinforcement learning (RLHF / DPO) using locally curated datasets and MOOVE feedback loops
- Design and maintain secure data and model pipelines for hosting, evaluation, and transfer across local infrastructure and collaborating sites
- Implement and monitor privacy-preserving techniques, including data anonymization, de-identification, and access control, aligned with emerging national data protection frameworks
- Support local integration of the MOOVE platform, ensuring scalability, technical compatibility, and secure data exchange for India-based users
- Conduct experiments on preference optimization, evaluation feedback, and model behavior under contextual and multilingual clinical prompts



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- Collaborate with the global MOOVE team on evaluation, safety tuning, benchmarking, and reproducible research protocols
- Publish and disseminate research outputs, contributing to open-source datasets, frameworks, and technical documentation developed under PrAlmaan and MOOVE
- Mentor interns and junior engineers at KCDH-A and LiGHT, fostering best practices in responsible AI engineering and research reproducibility

Qualifications:

- Bachelor's/Master's/PhD degree in Computer Science, Engineering, or related field.
- 3–5 years of proven experience
- Prior experience in health tech, open-source projects, or humanitarian applications preferred.

Skills Required:

- Strong background in large-scale model training and fine-tuning ($\geq 1B$ parameters)
- Proficiency in PyTorch, DeepSpeed, FSDP, and Hugging Face Transformers
- Hands-on experience with cloud computing (AWS, GCP) and local HPC environments
- Experience with reinforcement learning for LLMs (e.g., RLHF, DPO, PPO, rejection sampling)
- Familiarity with LoRA, QLoRA, MoE, FlashAttention, and related efficiency techniques
- Strong understanding of model versioning, containerization, and deployment (Docker, GitHub Actions, MLFlow, WANDB)
- Solid Python engineering skills, including code modularity, testing, and documentation
- Excellent communication and collaboration skills—able to translate technical details for interdisciplinary teams

Preferred

- Prior work in medical AI, health tech, or open-source LLMs
- Experience in multi-lingual or low-resource model adaptation
- Familiarity with benchmarking frameworks (Im-eval-harness, HELM, MedQA, etc.)
- Demonstrated interest in AI safety, fairness, and global health applications



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Application Submission Process:

We invite you to embark on this journey by submitting your application to Ashoka University's KCDH-A. To ensure your candidacy receives the attention it deserves, kindly follow the application submission process outlined below:

Prepare an Updated CV: Showcase your professional accomplishments, skills, and experiences in an updated curriculum vitae.

Submit Your Application: Email your CV to connect.hr@ashoka.edu.in, ensuring the subject line reads as follows: "Designation – Department Name _ Applicant Name". This will help us efficiently process your application.

Include Essential Details: Along with your CV, kindly provide the following information:

- Last compensation received: We value your expertise and acknowledge the importance of fair compensation.
- Expected salary: Share your aspirations for growth and remuneration.
- Notice period: Inform us of the time required to transition from your current role, if applicable.

Pursuit for Excellence: At Ashoka University, we strive for excellence in all aspects of our operations. Therefore, only shortlisted candidates will be contacted as part of our rigorous selection process.

Adherence to Deadlines: To ensure fairness and efficiency, please submit your application by 19th Dec 2025. Applications received after the deadline will not be considered.

We look forward to receiving your application as we embark together on a remarkable journey of professional growth and development. Join our exceptional community at Ashoka University, where excellence is nurtured, and aspirations are transformed into reality.