Job Title:
Junior Research Fellow – Healthcare AI & Data Science

Reports to:

Head, KCDH-A

Location:
Ashoka University, Sonipat, Haryana

Experience (in years):

- **MBBS/BDS/MPH/M.Sc./M.Tech. (Biotechnology / Biomedical Engineering / CS / AI-ML / Statistics / related)** with interest in clinical research and AI.
- Fresh graduates with demonstrated research aptitude and willingness to upskill are strongly encouraged to apply.

Nature of work:

We are looking for a motivated Junior Research Fellow (JRF) who will work closely with the KCDH-A and CRASH Lab (Centre for Responsible Autonomous Systems in Healthcare) teams on frontier projects in clinical AI, digital health, and multi-institutional collaborations with partners such as Harvard, NUS, IITs, JIPMER, the National Cancer Grid, and leading healthtech startups.

This is an exceptional opportunity for early-career clinicians and researchers (MBBS/masters graduates) who want to make their careers at the intersection of medicine and AI. The JRF will support research coordination, data curation, grant preparation, and initial analyses while being mentored to develop skills in Python, statistics, AI pipelines, and scientific writing.

The role is designed to upskill motivated graduates into AI-ready researchers, offering exposure to world-class collaborations, high-impact publications, and real-world deployments.

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 and industry to drive frontier research and real-world deployment of safe, trustworthy AI systems in health.

Role and Responsibilities:

1) Research Support

- Assist in data curation, cleaning, and annotation for multimodal clinical datasets (EHR, imaging, text).

- Conduct basic exploratory analyses (Python/R/SPSS; summary statistics, visualizations).

- Run benchmarking scripts and help prepare tables/figures for abstracts and manuscripts.

2) Project Coordination

- Support IRB/IEC submissions, MoUs, and data-sharing agreements.

- Coordinate with hospital collaborators to track data collection and project progress.

- Maintain meeting notes, trackers, and timelines across projects.

3) Grants & Abstracts

- Contribute to publications, literature reviews, background writing, and reference management.

- Assist in preparing abstracts for international conferences (RSNA, MICCAI, etc.) and grant documents (ICMR, IndiaAI, etc.).

4) Learning & Growth

- Actively develop programming and statistical skills (Python, R, AI libraries) through project work.

- Gain exposure to frontier AI methods (medical imaging, NLP, bias/safety audits, simulation models).

- Build a foundation for future roles as a Research Associate or doctoral candidate in AI & medicine.

Qualifications:

- **Essential:** MBBS/BDS/MPH/M.Sc./M.Tech. in relevant discipline.

- **Desirable:** Some exposure to programming (Python/R), statistics, or research projects.

- Strong motivation to learn and build a career at the AI–healthcare interface.

Skills Required:

- **AI Nativity:** Comfort with using AI tools for productivity, coding assistance, literature review, and skill-building.

- **Technical (entry-level):** Basic Statistical Analyses and concepts, willingness to learn PyTorch/TensorFlow and statistical analysis, Basic Python/R familiarity is preferred.

- **Coordination:** Demonstrated organizational and leadership skills (e.g. MSAI, IMA-MSN, AMSA, GAIMS, etc.), ability to manage timelines, and work in multi-institutional settings.

- **Writing:** Excellent communication and scientific writing skills (abstracts, reports).

- **Learning:** Ability to adapt quickly to new domains (including but not limited to oncology, radiology, emergency care).

- **Delivery:** Reliability in meeting deadlines, proactive in following up tasks.

Additional preferable skills (not mandatory):

- Prior exposure to clinical research projects or data collection in healthcare settings.

- Familiarity with AI/ML concepts (even via online courses, Kaggle projects, or internships).

- Basic knowledge of medical imaging (DICOM) or clinical terminologies (ICD, SNOMED).

- Experience with reference management tools (Zotero, Paperpile, Mendeley, EndNote).

- Comfort using collaboration tools (GitHub, Overleaf, Notion, Slack, Trello).

- Early experience in writing abstracts, posters, or case reports for conferences.

Application Submission Process:

We invite you to embark on this journey by submitting your application to Ashoka University's **Koita Centre for Digital Health (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. Mention the

Submit Your Application: Email your CV to head.kcdha@ashoka.edu.in, ensuring the subject line reads as follows: "Junior Research Fellow – Healthcare AI & Data Science – KCDH-A _Applicant Name>" with CC to suvrankar.datta@ashoka.edu.in. 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 12th Spetember 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.