Job Title:
Research Associate - Healthcare AI & Data Science

Reports to:

Head, KCDH-A

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

Experience (in years):

- **MD/MS/MDS/Ph.D.** (preferably in **Bioinformatics / Biomedical Engineering / CS / AI-ML / Radiology / Statistics / Public Health** /related),

     OR

- **MBBS/BDS/M.Tech/M.Pharm/MVSc** with **≥3 years** of research/teaching/design-&-development experience

Nature of work:

We are looking for a highly motivated Research Associate who will play a pivotal role at **KCDH-A** including CRASH Lab (Centre for Responsible Autonomous Systems in Healthcare) team on multi-institutional collaborations with Harvard, NUS, IITs, JIPMER, National Cancer Grid and healthtech startups. This role combines **hands-on research in AI for healthcare** with project coordination, grant writing and stakeholder engagement. You will contribute to **AI model development** on multimodal clinical data (imaging/EHR/text), help build simulation environments (incl. synthetic patients grounded in real data) and coordinate ethics, data-sharing, and grant deliverables across collaborators. The role demands **rapid learning across domains** and reliable delivery under deadlines.

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 & Prototyping

- Design and implement AI pipelines for multimodal datasets (DICOM imaging, EHR/structured data, clinical text).

- Build and test clinical environment simulations, including synthetic patient cohorts grounded in real-world distributions for intervention and resource-allocation studies.

- Contribute to benchmarking of frontier models (vision/VLM/NLP) and reliability metrics (e.g., AUC, sensitivity/specificity, calibration; reporting fidelity metrics).

- Run pilot analyses and ablations to generate figure-ready results for manuscripts and grants.

2) Data, Compliance & Ops

- Coordinate IRB/IEC submissions, data-sharing agreements (DSAs/MoUs), and documentation in line with HIPAA/GDPR/DPDP/Indian regulations.

- Liaise with hospital IT and partner teams to enable secure data acquisition, de-identification and quality checks.

- Maintain reproducible code, experiment logs, and data governance trackers.

3) Project Coordination

- Own timelines and deliverables across parallel projects (oncology, emergency care, radiology, evaluation studies).

- Schedule/record meetings; drive follow-ups with clinicians, engineers, and policy collaborators; unblock dependencies proactively.

- Prepare concise briefs, slides, and progress notes for internal and external stakeholders.

4) Grants & Program Development

- Support grant scouting and submissions (e.g., ICMR "First in the World Challenge," IndiaAI, international calls): literature synthesis, methods/experiments, data plans, compliance statements, and budget inputs.

- Assemble appendices (ethics letters, collaborator roles, Gantt charts, risk/mitigation).

5) Publications & Dissemination

- Draft abstracts, manuscripts, and responses to reviewers; target conferences/journals (RSNA, MICCAI, NeurIPS, ICML, CVPR etc.).

- Prepare presentations/posters and coordinate with co-authors to meet deadlines.

Qualifications:

- **MD/MS/MDS/Ph.D.** (preferably in **Bioinformatics / Biomedical Engineering / CS / AI-ML / Radiology / Statistics / Public Health** /related),
  OR
- **MBBS/BDS/M.Tech/M.Pharm/MVSc** with **≥3 years** of research/teaching/design-&-development experience **and at least one publication**.

Skills Required:

- **Technical:** Python (Pandas/NumPy), PyTorch/TensorFlow, HuggingFace; ML experiment hygiene (versioning/metrics); DICOM tools; basic clinical NLP; SQL; git.

- **Evaluation:** Diagnostic ML metrics (ROC/AUC, PR, sensitivity/specificity), calibration, error analysis; ability to create clean tables/figures.

- **Coordination:** Strong organization, timeline management, stakeholder communication, and meeting execution; comfort with IRB/IEC and DSAs.

- **Grants & Writing:** Clear academic writing (abstracts/manuscripts/grant sections), literature review, documentation.

- **Learning & Delivery:** Rapid learner; dependable under hard deadlines; ownership mindset.

Additional preferable skills (not mandatory):

- Experience with federated learning, privacy-preserving methods, bias/safety evaluations.

- Familiarity with Autogen/LangChain/LangGraph/CrewAI, OHIF, HAPI-FHIR, or clinical data standards (FHIR/DICOM).

- Prior multi-institution collaboration or large-scale health data projects.

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.

Submit Your Application: Email your CV to head.kcdha@ashoka.edu.in, ensuring the subject line reads as follows: "Research Associate – 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. September 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.