

BIODATA

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Academic Qualifications

| S. No. | Degree | Institution | Year |
|--------|---|--|------|
| 1 | M.D. (Radiodiagnosis & Interventional Radiology) | All India Institute of Medical Sciences (AIIMS), New Delhi | 2023 |
| 2 | M.B.B.S. (Gold Medallist) | Jawaharlal Institute of Postgraduate Medical Education & Research (JIPMER), Puducherry | 2018 |

Employment Experience

| S. No. | Position & Organisation | Nature of Work | Period |
|--------|--|---|-----------------|
| 1 | Faculty Fellow , Koita Centre for Digital Health, Ashoka University (India) | Founder and Lab Lead, Centre for Responsible Autonomous Systems in Healthcare (CRASH Lab); Lead Responsible AI efforts, multimodal radiology research, establish India's leading radiology AI and healthcare AI lab | 2025 – present* |
| 2 | Senior Resident , Dept. of Radiodiagnosis & IR, AIIMS Delhi | Core clinical work, audited AI-augmented workflows, teaching Junior Resident, part-time AI research (>10k+ Images Annotated) | 2023 – 2024 |

Research Experience (Voluntary Engagements - Non Remunerative)

| S. No. | Position & Organisation | Nature of Work | Period |
|--------|---|--|-----------------|
| 1 | Visiting Researcher (Medical AI Bootcamp), Rajpurkar Lab, Harvard Medical School | Clinical validation of foundational AI algorithms in Radiology, create SOTA multimodal foundational models (Rajpurkar Lab fares among the top Radiology AI labs internationally) | 2024 – present* |

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|---|---|--|-------------|
| 2 | Lead AI Researcher (Independent Academia-Industry consortium) | Headed LLM-augmented speech-to-text pipeline for radiology reporting; established SOTA metrics; two cutting edge oral accepts in RSNA 2023 | 2023 – 2024 |
| 3 | Clinical Lead , IIT Jodhpur-AIIMS Rib-Fracture AI project (under PI Dr. Atin Kumar, Professor, Radiology AIIMS Delhi as a part of M.D. Thesis) | Developed Indian academia's 1st 3D AI models which can prognosticate and calculate RibScore; secured ₹ 3.9 M grant from TIH (iHUB Drishti); Work won RSNA Trainee Prize 2023 (only award to an Indian Resident), developed SOTA methods for training models with less data (work accepted to MICCAI 2025 as early accept, top 9% globally) | 2022 – 2025 |

List of Publications, Presentations and Chapters (last 5 years)

1. Journal Articles and Published Conference Proceedings

- Pate S, Farooq A, **Datta S** *et al.* Fine-Grained Rib Fracture Diagnosis with Hyperbolic Embeddings: A Detailed Annotation Framework and Multi-Label Classification Model. arXiv preprint arXiv:2504.10889. 2025 Apr 15. (Accepted at MICCAI 2025)
- Sarangi PK, **Datta S**, Panda BB *et al.* Evaluating ChatGPT-4's Performance in Identifying Radiological Anatomy in FRCR Part-1 Examination Questions. *Indian J Radiol Imaging* 2024.
- Sarangi PK, **Datta S**, Swarup MS *et al.* Radiologic Decision-Making for Imaging in Pulmonary Embolism: Accuracy and Reliability of Large Language Models. *Indian J Radiol Imaging* 2024.
- Sarangi PK, **Datta S**, Mondal H. Comment on "ChatGPT: Chasing the Storm in Radiology Training and Education." *Indian J Radiol Imaging* 2024.
- Dabass M, Chandalia A, **Datta S** *et al.* Attention Learning-Enabled 3D cGAN for Lung-Nodule Segmentation. In *Proc. IJCACI 2022* (Algorithms for Intelligent Systems), Springer 2024.
- Dabass M, Chandalia A, **Datta S** *et al.* ALE-GAN: 3D Conditional GAN with Attention Learning. In *Advances in Data-Driven Computing & Intelligent Systems* (LNNS 890), Springer 2024.
- Dabass M, Chandalia A, **Datta S** *et al.* Residual-Atrous CNN for Lung-Nodule Segmentation & Classification. In *Advances in Data-Driven Computing & Intelligent Systems* (LNNS 893), Springer 2024.

- Ellappan K, **Datta S**, Muthuraj M *et al.* Factors Influencing *M. tuberculosis* Recovery and Contamination Rates in MGIT-960. *Indian J Tuberc* 2020.

2. Scientific Articles (under Review)

- Sarangi PK, **Datta S**. From Chatbots to Agentic Workflows: Ensuring Responsible Deployment of Large Language Models in Radiology (Accepted on 31st July: *Indian J Radiol Imaging*)
- MedVersa: A Generalist Foundation Model for Medical Image Interpretation. Hong-Yu Zhou, Julian Acosta, Subathra Adithan, **Suvrankar Datta**, Eric Topol, Pranav Rajpurkar (Under Review: *NEJM AI*)

3. Scientific Presentations in Key Conferences

- AIRib Framework – Oral, RSNA 2023; winner RSNA Trainee Research Prize.
- Optimising LLM-Augmented Speech Recognition for Radiology Reporting – Cutting-Edge Oral, RSNA 2023.
- Comparative Analysis of LLM-Enhanced Speech Pipelines for Reporting – Cutting-Edge Oral, RSNA 2023.
- Artificial Intelligence in Interventional Oncology: Challenges & Opportunities – Oral, ISVIR 2023.
- Artificial Intelligence in Interventional Radiology: A Primer for Residents – Digital Exhibit, RSNA 2023.
- Artificial Intelligence in Musculoskeletal Interventions: Challenges, Utilities & Future – Digital Poster, ISS 2023.
- *Multiple other non-presenting author engagements with various research groups in national and international conferences.*

4. Scientific Chapters

- **Datta S**. Artificial Intelligence in Interventional Radiology. In *Artificial Intelligence in Medicine*, Springer 2021.

5. Related Invited/Guest Talks/Panels on AI and Digital Health

- National IRIA AI Workshop, May 2025
- Panelist, Doctors AI Virtual Global Summit, 2025
- Keynote, Asia Oceania Congress of Radiology (AOCR), Jan 2025
- Panelist, Andhra Pradesh Digital Tech Summit, APDTS, Jan 2025
- Keynote, Healthtech Roundtable, NASSCOM Future Forge, Bangalore – Oct 2024.

- Panelist, SASH 2025
- Panelist, Innohealth 2025, IIIT Delhi
- Panelist, FICCI Heal, New Delhi – Nov 2024.
- Keynote, Multimodal AI Symposium, LTMMC & Sion Hospital, Mumbai – Sept 2024.
- Keynote, NASSCOM Community Meetup – Nov 2023.
- Keynote, Bhartiya Vidyapeeth Med College, Pune – Oct 2023.
- Webinar Speaker, Clinicase Essex Research Wing – Sept 2023.
- Guest Speaker, GAPIO 2023, Ahmedabad – 2023.
- Panelist, IIT Jodhpur Industry Day – 2021.
- Guest Speaker, MedXQuest – 2022.
- Keynote, NATCON 2021, Patna – 2021.
- *Multiple invited talks at Events Hosted by Industry Collaborators*

Consultancy and Advisory

Prior Independent Consultant and Advisor (often Pro Bono) for Multiple Radiology and AI Companies including Qure AI, Manentia AI, Radiogram etc. Also worked as a Visiting Radiologist at top Institutions like Medanta and Fortis Hospitals.