SUDARSHAN ANAND

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EDUCATION

Georgia Institute of Technology — Atlanta, GA, United States
MS Computational Science and Engineering (CGPA: 4.0/4.0) — Aug 2024 – present
Relevant Coursework: Data Science for Epidemiology, Machine Learning for Graphs, Numerical Linear Algebra

Birla Institute of Technology and Science (BITS Pilani) — Pilani, Rajasthan, India
MSc. Mathematics and B.E. Computer Science (CGPA: 9.4/10) — Aug 2019 – Aug 2024

HEALTHCARE RESEARCH PROJECTS

Parkinson's disease classification using fMRI — Aug 2025 – present
Georgia Institute of Technology — Atlanta, GA, United States

- Developing imaging-based approaches using structural and functional MRI to improve early diagnosis of Parkinson's disease

EpiCoV Metadata Analysis — May 2025 – present
Edith Cowan University — Western Australia, Australia [Remote]

- Investigating COVID-19 metadata to identify temporal patterns and emphasize its significance for early pandemic prediction

Responsible AI for Medical Imaging and Diagnosis — Jan 2025 – present
Georgia Institute of Technology — Atlanta, GA, United States

- Developing a Responsible AI framework for chest X-ray disease classification
- Benchmarked state-of-the-art vision classification models in lung abnormality classification (normal vs. opacity vs. no opacity/not normal)

Lung Nodule Malignancy Risk Evaluation — Jan 2024 – Jun 2024
Qure.ai Technologies Pvt. Ltd. — Bangalore, Karnataka, India

- Evaluated the company's lung nodule detection product against human radiologist annotations
- Optimized the product's pre-deployment performance, improving reliability and clinical readiness
- Enhanced AI annotations, achieving ≈45% improvement in correlation with human radiologist assessments
- Performed end-to-end fine-tuning of state-of-the-art CNN architectures (DenseNet, ResNet, etc.) for lung nodule texture classification, boosting diagnostic accuracy

EXPERIENCE

Graduate Teaching Assistant — Aug 2025 – present
Georgia Institute of Technology — Atlanta, GA, United States

- Graduate Teaching Assistant for CSE Algorithms course
- Helping students build strong conceptual understanding of course material
- Grading assignments/projects while delivering actionable feedback to improve performance

AI Product Development Intern — Jun 2025 – Aug 2025
Rezolve.ai — Dublin, CA, United States [Remote]

- Built an Agentic AI knowledge search platform, improving enterprise knowledge accessibility and enabling faster information retrieval across teams
- Developed an Agentic AI prototype for infrastructure alert triage and resolution, reducing alert handling times from weeks to hours
- Implemented human-in-the-loop and model-reasoning workflows to ensure transparency and responsible AI practices
- Generated strong interest from potential clients and leading market research firms for both products, demonstrating market viability and adoption potential

AI Scientist Intern — Jan 2024 – Jun 2024
Qure.ai Technologies Pvt. Ltd. — Bangalore, Karnataka, India

- Optimized the company's lung nodule detection product against radiologist annotations, improving AI correlation by ≈45% and enhancing clinical reliability
- Benchmarked image registration speed for lung nodule tracking in consecutive scans

SKILLS

Machine Learning & Math: Deep Learning, Computer Vision, Medical Imaging, Time-series Forecasting, Foundational Models, Explainable AI, Graph Neural Networks, Data Science, Predictive modelling, Statistics, Graph Theory.
Software: Pytorch, Lightning, Pinecone, MONAI, PostgreSQL, Neo4j, MongoDB, PowerBI, Alteryx

PUBLICATIONS

- Shiksha, Sudarshan Anand, Krishnendra Shekhawat, and Karan Agrawal. 2025. "Automated Generation of Circulations within a Floorplan." Artificial Intelligence for Engineering Design, Analysis and Manufacturing 39: e9. (DOI: 10.1017/S0890060425000022.

- Anshu, Balram Dubey, Sourav Kumar Sasmal, and Sudarshan Anand. Consequences of fear effect and prey refuge on the Turing patterns in a delayed predator–prey system. Chaos: An Interdisciplinary Journal of Nonlinear Science, volume 32, page 123132. AIP Publishing LLC, Dec 2022 (DOI: 10.1063/5.0126782).