

# Sudarshan Anand

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A second-year MS. Computational Science and Engineering student at Georgia Tech (Atlanta). Deeply interested in the mathematical aspects of Deep Learning, and applications of AI in medical imaging, public health and broader life-sciences.

## EDUCATION

### Georgia Institute of Technology

MS. Computational Science and Engineering (CGPA: 4.0/4.0)

Atlanta, GA

Aug. 2024 – present

### Birla Institute of Technology and Science (BITS Pilani)

MSc. Mathematics and B.E. Computer Science (CGPA: 9.4/10)

Rajasthan, India

Aug. 2019 – Aug. 2024

## PROJECTS

### Parkinson's disease classification using fMRI

Georgia Institute of Technology

Aug 2025 – present

Atlanta, United States

- Working at Bio-MIBLab on using structural and functional brain MRI scans of patients to detect early onset of Parkinson's disease

### EpiCoV Metadata Analysis

Edith Cowan University

May. 2025 – present

Western Australia, Australia [Remote]

- Conducting a spatio-temporal analysis of the metadata for COVID-19 to assess and visualize trends over time

### Responsible AI for Medical Imaging and Diagnosis

Georgia Institute of Technology

Jan. 2025 – present

Atlanta, United States

- Working in the Responsible AI for Decision Making in Healthcare and Engineering team.
- Developing an AI product for whitebox detection in various radiology modalities (CT, MRI, X-ray)

### Lung Nodule Malignancy Risk Evaluation

Qure.ai Technologies Pvt. Ltd., Bangalore

Jan. 2024 – Jun 2024

Karnataka, India

- Evaluated the company's internal lung nodule detection product, applying clinical risk models (e.g., Brock model) to assess malignancy probability based on nodule size, texture, count, volume, and patient data
- Fine-tuned the product for optimal pre-deployment performance, improving reliability and clinical readiness
- Trained and optimized state-of-the-art CNN architectures (DenseNet, ResNet, etc.) from scratch for lung nodule texture classification, enhancing diagnostic accuracy

## 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](https://doi.org/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](https://doi.org/10.1063/5.0126782)).

## EXPERIENCE

### Georgia Institute Technology

Graduate Teaching Assistant

Aug 2025 – present

Atlanta, GA, United States

- Graduate Teaching Assistant for CSE Algorithms course

### Resolve.ai

AI Product Development Intern

Jun. 2025 – Aug. 2025

Dublin, CA, United States [Remote]

- Built an Agentic AI knowledge search platform with explainability, driving rapid, transparent information access and attracting strong client interest
- Developed an Agentic AI prototype for infrastructure alert triage and resolution, embedding explainability and human-in-the-loop workflows, and earned strong interest from top-tier AITSM firms

### Qure.ai Technologies Pvt. Ltd., Bangalore

AI Scientist Intern

Jan. 2024 – Jun. 2024

Karnataka, India

- Evaluated the company's internal lung nodule detection product, applying clinical risk models (e.g., Brock model) to assess malignancy probability based on nodule size, texture, count, volume, and patient data
- Enhanced AI annotations, achieving a **~45% improvement** in correlation with ground truth.
- Benchmarked image registration speed for lung nodule tracking in consecutive scans.

## SKILLS

**Machine Learning & Math:** Deep Learning, Computer Vision, Healthcare AI, Time-series Forecasting, Foundational Models, Explainable AI, Graph Neural Networks, Data Science, Statistics, Graph theory.

**Software:** Pytorch, Lightning, Pinecone, MONAI, PostgreSQL, Neo4j, MongoDB, PowerBI, Alteryx