

Sudarshan Anand

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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

EXPERIENCE

Qure.ai Technologies Pvt. Ltd., Bangalore

Jan. 2024 – Jun. 2024

AI Scientist Intern

Karnataka, India

- Developed vision models to classify lung nodule textures from chest CT scans, improving malignancy risk assessment.
- Enhanced AI annotations, achieving a $\approx 45\%$ improvement in correlation with ground truth.
- Benchmarked image registration speed for lung nodule tracking in consecutive scans.

National Center For Polar and Ocean Research, Goa

May. 2021 – Jul. 2021

Data Science Intern

Goa, India

- Built ensemble ML models for weather forecasting with **99.52% accuracy** using polar time-series data.

SKILLS

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

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

PUBLICATIONS

- 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)).
- 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)).

PROJECTS ([MORE DETAILS](#))

Responsible AI for Medical Imaging and Diagnosis

Jan. 2025 – present

Georgia Institute of Technology

Atlanta, United States

- Working in the Responsible AI for Decision Making in Healthcare and Engineering team.

Samay: Time-series Foundational Models Library

Jan. 2025 – present

Georgia Institute of Technology

Atlanta, United States

- Working at AdityaLab, Georgia Tech, contributing to making [Samay](#) an open-source time-series library.
- Benchmarking [LPTM](#) against other SOTA Time-series foundational models (Chronos, TimesFM, MOIRAI, etc).

Viral evolution in heterogeneous human contact networks [Project website](#)

Oct. 2024 – Dec 2024

Georgia Institute of Technology

Atlanta, United States

- Studied how heterogeneous human contact patterns and competition among mutated strains affect the disease dynamics.

Fluctuations in queueing systems

Sept. 2024 – Dec 2024

Georgia Institute of Technology

Atlanta, United States

- Formulated mathematical model for multiclass queueing systems using stochastic differential equations to analyze their stability (will the queue eventually empty or grow infinitely?).
- Analyzed stability of Lu-Kumar and a modified version of the same.

Automated generation of Circulations with a Rectangular floorplan

Aug. 2021 – Aug 2024

Birla Institute of Technology and Science, Pilani

Rajasthan, India

- Led the R&D team involved in adding corridors to floorplans with the power of graph algorithms.
- Project turned stealth-mode startup [GPLAN](#).

VOLUNTEERING AND LEADERSHIP

Creative Activities Club, the art club of BITS Pilani

May. 2021 – Jul. 2022

Club Secretary

Rajasthan, India

- Led and mentored 50-member art club in organizing three events for the college’s annual technical fest.

Student Faculty Council - Mathematics Department, BITS Pilani

Sep. 2020 – Dec. 2020

Core member

Rajasthan, India

- Represented the student body to the department faculty to get the students’ queries and issues resolved.

Sri Annai Kamakshi Kalai Kudam, Chennai

Jun. 2013 – present

Core member

Tamil Nadu, India

- Member of art center that trains and helps artists like me to make artworks and display them in art galleries.
- Funds collected from selling these artworks during the art exhibition are donated to educate underprivileged kids.