

# Anindya Sundar Das

Klintvagen 7, Umea 90737, Sweden

 [anindyasdas.github.io](https://github.com/anindyasdas)     [aninsdas@cs.umu.se](mailto:aninsdas@cs.umu.se) / [anindyasdas34@gmail.com](mailto:anindyasdas34@gmail.com)  
 [github.com/anindyasdas](https://github.com/anindyasdas)     +46727835556 / +918296424344

## EDUCATION

### Umeå University, Sweden

PhD, Department of Computing Science

May 2022 – Present

Batch 2026

### Indian Institute of Technology, Patna

Master of Technology in Mathematics & Computing

2020

CPI: 9.69/10 (Institute Silver Medal), DAAD Exchange Student: TU Darmstadt, Germany

### West Bengal University of Technology

Bachelor of Technology in Electronics and Communication Engineering

2012

CGPA: 9/10

## Publications

- **Anindya Sundar Das**, Monowar Bhuyan "Multi-Cue Anomaly Detection and Localization under Data Contamination", Under review (journal)..
- **Anindya Sundar Das**, Kangjie Chen, Monowar Bhuyan "Unmasking Backdoors: An Explainable Defense via Gradient-Attention Anomaly Scoring for Pre-trained Language Models", Accepted at **International Conference on Learning Representations (ICLR) 2026 (CORE A\*)**.
- **Anindya Sundar Das**, Guansong Pang, Monowar Bhuyan "Adaptive Deviation Learning for Visual Anomaly Detection with Data Contamination", **IEEE Winter Conference on Applications of Computer Vision (WACV) 2025 (CORE A)**.
- **Anindya Sundar Das**, Aravind Ajay, Sriparna Saha, Monowar Bhuyan "Few-Shot Anomaly Detection in Text with Deviation Learning", **International Conference on Neural Information Processing (ICONIP) 2023 (CORE B)** (Best Paper Award).
- Tulika Saha, Saichethan Miriyala Reddy, **Anindya Sundar Das**, Sriparna Saha., Pushpak Bhattacharya. "A Shoulder to Cry on: Towards A Motivational Virtual Assistant for Assuaging Mental Agony", **North American Chapter of the Association for Computational Linguistics (NAACL) 2022 (CORE A)**.
- Tulika Saha, Vaibhav Gakhreja, **Anindya Sundar Das**, Souhitya Chakraborty, Sriparna Saha, "Towards Motivational and Empathetic Response Generation in Online Mental Health Support", **SIGIR 2022 (CORE A)**.
- **Anindya Sundar Das**, Sriparna Saha, "Self-Supervised Image-to-text and Text-to-image Synthesis", **International Conference on Neural Information Processing (ICONIP) 2021 (CORE B)**.

## Patents

- Vanitha Alagarsamy, **Anindya Sundar Das**, Balaji Haridass, "An Automated System And Method to Manage Product Feedbacks", Indian Patent Office: 202211009666, filed Feb 23, 2022. (Patent Pending)

## EXPERIENCE (Research & Industry)

### Umeå University

Doctoral Researcher

Umeå, Sweden

May 2022 - Present

- Developed robust and explainable anomaly detection frameworks for vision and language foundation models under data contamination.
- Proposed gradient-attention based backdoor detection and mitigation strategies for transformer-based language models.

## LG Soft India

Senior Research Engineer

Bangalore, India

February 2021 - April 2022

- Designed and implemented enterprise Knowledge Graph construction pipelines from unstructured product manuals using NLP techniques.
- Developed graph-embedding-based KGQA frameworks and domain-specific question answering systems.

## Duru Corporation (Contract at LG Soft India)

Machine Learning Engineer

Bangalore, India

November 2020 - February 2021

- Built information extraction pipelines for Knowledge Graph construction from semi-structured product manuals.
- Implemented end-to-end Knowledge Graph-based question answering systems.

## IIT Patna

Research Assistant

Patna, India

July 2020 - October 2020

- Implemented sentiment-driven response generation methods for motivational conversations using GPT-2, integrating supervised and reinforcement learning.

## Technical University, Darmstadt

Research Assistant (Internship)

Darmstadt, Germany

September 2019 - March 2020

- Developed self-supervised image captioning using a multimodal approach.

## TATA Research Design and Development Center

Project Intern (Internship)

Pune, India

May 2019 - July 2019

- Developed an NLP-based solution for biomedical knowledge extraction, leveraging Markov Logic Networks (MLN) to model N-ary relations by integrating SRL, dependency parsing, and domain knowledge rules.

## IBM

System Engineer (Associate → System Engineer)

Bangalore & Kolkata, India

Apr 2014 - July 2018

- Developed and maintained enterprise software solutions for international clients in insurance and car rental sectors.
- Performed requirement analysis, system design, and implementation using Mainframe technologies and SQL.
- Led development, testing, debugging, and deployment of production-grade modules.

## Teaching & Leadership Experience

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- Teaching Assistant for the Machine Learning Course (VT25) at Umeå University.
- WASP Cluster Leader for Anomaly Detection (since November 2023).

## Mentoring

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- **Aravind Ajay** — B.Tech Thesis Supervision, IIT Patna (2022–2023). Currently at Nielsen.
- **Kalpna Bishnoi** — B.Tech Thesis Supervision, IIT Patna (2023–2024). Currently at Jaguar Land Rover India.
- **Soumit Saha** — B.Tech Thesis Supervision, IIT Patna (2025–Present).

## KEY SKILLS

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- **Machine Learning & AI:** Trustworthy AI, Deep Learning, NLP, Computer Vision
- **Programming:** Python, R, C, SQL
- **Tools & Frameworks:** PyTorch, Keras, Git, Docker

### Other Professional Skills

- IBM Mainframe
- Database: DB2, SQL

### Languages

- English: Fluent
- Bengali: Mother Tongue
- Hindi: Fluent

## AWARDS AND ACHIEVEMENTS

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- Nasscom AI Gamechangers Award 2023-24 in the category of AI research for work on “Motivational Virtual Assistant for Assuaging Mental Agony” published in NAACL 2022.
- Best Paper Award at ICONIP 2023 for paper titled “Few Shot Anomaly Detection in Text with Deviation Learning”.
- Institute Silver Medal, IIT Patna 2020.
- DAAD Masters Scholarship awardee 2019.
- Ministry of Human Resource Development (MHRD), Govt. of India Scholarship for M.Tech(2018-2020).
- Department rank 1(MTech Mathematics and Computing) and 2<sup>nd</sup> rank among all M.Tech. students of IIT Patna(2020).

## References

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### **Dr. Sriparna Saha**

Department of Computer Science  
Indian Institute of Technology, Patna, India

✉ sriparna@iitp.ac.in

☎ +91-8809-559-190

### **Dr. Erik Elmroth**

Department of Computing Science  
Umeå University, Sweden

✉ elmroth@cs.umu.se

☎ +46-70-315-39-28

### **Dr. Monowar Bhuyan**

Department of Computing Science  
Umeå University, Sweden

✉ monowar@cs.umu.se

☎ +46-76-433-82-37

### **Dr. Guansong Pang**

School of Computing and Information Systems  
Singapore Management University, Singapore

✉ gspang[at]smu.edu.sg

☎ +65-8920-7099