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Sakshi

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• LinkedIn

• GitHub

• Google Scholar

• Portfolio

EDUCATION

B.E. in Computer Science and Engineering, Siddaganga Institute of Technology, GPA: 9.05/10.00

August 2016 — August 2020

M.S. in Computer Science, University of Massachusetts Amherst, GPA: N.A./N.A.

August 2022 — August 2024 (Expected)

EXPERIENCE

Software Engineer II

August 2020 — Present

Cisco Systems

Bangalore, India

- Working as a Senior Software Engineer in the automation and orchestration team under the Customer Experience BU. Building network assurance solutions for Cisco's telecom customers, leveraging state-of-the-art algorithms for anomaly detection at scale.
- Built a critical component in Cisco's first telemetry-based network assurance solution.
- Aided in developing MPLS backbone services for Bharti Airtel, which is capable of carrying data across the globe using Cisco's Network Service Orchestration (NSO) tool.
- Contributing to AI R&D at Cisco.

INTERSHIPS

Technology Intern

January 2020 — June 2020

Cisco Systems

Bangalore, India

- Worked on building a VOIP (Voice Over IP) Traffic Analyzer to detect anomalous SIP messages using machine learning.

PROJECTS

Fake News Detection

March 2020

- Used machine learning and deep learning techniques to predict fake news on Social media.

Road Symbols Detection

September 2018

- Built an End-to-End system using Convolutional neural networks and IoT to classify extracted frames in a real-time app for tracking road symbols from a moving vehicle to display all the required information related to it to help the drivers follow traffic rules and reduce possibilities of accidents.
- Worked on this project in Smart India Hackathon, aided by Govt. of India

Quiz Paper Generation

August 2019

- Used SQL queries and angular to create a web app to help faculties in college generate quiz papers, with a primary focus on the generation of unique sets of quiz papers, picked from a database.

SKILLS

Programming

Python, Java, C, MySQL, HTML, CSS

Frameworks

PyTorch, Keras, Tensorflow, Angular, Flask

Tools

GIT, Android, Ansible, Rest API, Docker, Network Services Orchestrator (NSO)

Concepts

Speech and Natural Language Processing, Software Development, Functional programming, Object-oriented programming, Machine Learning, Deep Learning, Image Processing

PUBLICATIONS AND PATENTS

1. Ghosh, S. *et al.* . DeToxy: A Large-Scale Multimodal Dataset for Toxicity Classification in Spoken Utterances. *Interspeech* (2022).
2. **Sakshi** & Ghosh, S. Predicting the Stock Markets Using Neural Network with Auxiliary Input. *ICTCS* (2020).
3. Ghosh, S., **Sakshi** & Kataria, V. Multivariate Time-series Unsupervised Anomaly Detection in 5G networks. *Under US Patenting with Cisco* (2020).

AWARDS & HONORS

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|------|---------------------------------------------------------------------------------------------------------------------------------|
| 2020 | Received recognition from CTO of Cisco for publishing a patent as one of the youngest employees to publish a US patent at Cisco |
| 2018 | KPIT Innovation Award in a national level hackathon, SMART INDIA HACKATHON |
| 2017 | Winner in Choreography in Intercollege dance competition, Siddaganga Institute of Technology |

RESPONSIBILITIES

- 2020-Present** Served as a mentor for students to help them foster research interest early in their careers, thereby preparing them for research in the industry and academia.
- 2017-20** Served as the Teaching Assistant for advanced algorithms and data structure courses at Computer Science and Engineering Department, Siddaganga Institute of Technology

EXTRA-CURRICULAR

- 2020** Received token of appreciation for volunteering in organizing numerous vocational teaching activities for helping underprivileged children, Lok Kala Parishad

CO-CURRICULAR AND HOBBIES

- Present** Active investor and trader in the stock markets. In-depth knowledge of fundamental and technical analysis of stocks.
- Present** Learning different dance forms