

DRISHTI GOEL

Research Fellow, Microsoft M365 Research

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🎓Google Scholar

🌐Website

🌐LinkedIn

ACADEMIC BACKGROUND

- **Dayalbagh Educational Institute, Agra** 2019 – 2023
B.Tech in Electrical Engineering (Specialization in Computer Science)
University's Founders & Director's Medals Recipient **CGPA: 9.573/10.00**
- **DEI Prem Vidyalaya, Agra** 2018 – 2019
Class XII (Physics, Chemistry, Math) - *Director's Medal Recipient* **CGPA: 9.84/10.00**

RESEARCH PUBLICATIONS

- [1] Drishti Goel, Raghav Magazine, Supriyo Ghosh, Akshay Nambi, Prathamesh Deshpande, Xuchao Zhang, Chetan Bansal, Saravan Rajohan "eARCO: Efficient Automated Root Cause Analysis with Prompt Optimization", *under submission at the 20th ACM European Conference on Computer Systems (EuroSys Fall 2025)*
- [2] Sukrit Kumar*, Drishti Goel*, Thomas Zimmermann, Brian Houck, B. Ashok, Chetan Bansal "Time Warp: The Gap Between Developers' Ideal vs Actual Workweeks in an AI Driven Era", *under submission at the 47th International Conference on Software Engineering, Software Engineering in Practice track (ICSE SEIP 2025)*
- [3] Vaibhav Ganatra, Drishti Goel "Prototype-Reservation for Explainable Classification under Imbalanced & Scarce-Data Settings", *In proceedings of the 9th Machine Learning For Healthcare (MLHC 2024)* (🔗)
- [4] Drishti Goel, Fiza Husain, Aditya Singh, Supriyo Ghosh, Anjaly Parayil, Chetan Bansal, Xuchao Zhang, Saravan Rajmohan "X-lifecycle Learning for Cloud Incident Management using LLMs", *In Companion Proceedings of the 32nd ACM International Conference on the Foundations of Software Engineering (FSE 2024)* (🔗)

INDUSTRY EXPERIENCE

- **Microsoft-365 Research** August, 2023 - Present
Research Fellow Bangalore, India
 - Working on AI for IT and Cloud Systems (AIOPs), LLMs & SLMs for reliability in large-scale cloud systems. Work has translated into research publications and product impact
- **Grahn Lab, University of Western Ontario** 12 Weeks (1st June - 21st August 2022)
MITACS GRI Research Intern London, Canada
 - Using Pupillometry to detect emotions induced by music in Alzheimer's Patients**
 - Explored ML interventions to detect emotions on the basis of pupil-dilation data acquired by controlled experiments using the Eyelink 1000 Eye-Tracker.
 - Skills Acquired: Conducting systematic reviews, developing search strategies and working on various databases and database managers, Pupillometry, and conducting testing sessions.
- **NeenOpal Inc.** 5 Months (Jan - May 2022)
Data Science Intern Bangalore, India
 - Worked on several international client projects related to business intelligence and ML-driven decision-making using Power BI, Tableau, and Google Analytics
 - Single-handedly developed a Power-BI extension to automate the filter-changing and screenshot-taking process using Python
 - Was recognized as the intern of the quarter.
 - Articles: Power BI Screenshot Automation 📄, Visualizing the World Using Power BI 📄
- **Geniusup India Pvt. Ltd.** 6 weeks (June - August 2021)
Topic Modeling using the LDA Algorithm Agra, India(Online)
 - Built a topic model using the LDA Algorithm on "The Hindu" e-newspaper.
 - Skills Acquired: Web Scraping, Data Cleansing, and visualization (using Python), Machine learning (unsupervised), LDA Algorithm, High-level document drafting
 - Report: Topic Modeling 📄

ADDITIONAL PROJECTS

1. Image Caption Generator - **Eyes for the Blind** Oct, 2022
Created a neural image caption generator and used Google's Text-to-Speech
2. Innovative PPE (Personal Protective Equipment) design for Healthcare Workers Aug, 2022
Presented the prototype to The **Minister of Education at the National Level AICTE CVA Competition**
3. Smart Home Automation to Aid the Caregiving of **Dementia and Alzheimer's Patients** June – Aug, 2022
4. Entrepreneurial Methodology to Increase the Income of Rural Areas in India 2019 – 2020
Qualified and participated in the **National Level** of AICTE CVA Competition
5. Preservation and Integration of the heritage of India and Hong Kong Feb – April, 2020
During a student exchange program at **The Hong Kong University**, we studied the heritage of India and Hong Kong and explored integration methods.
6. An Intelligent Video Surveillance System Using Machine Learning Sept – Oct, 2019
Presented our paper at the 13th 'Indian Students System Conference'
7. Impact of Quality Teaching & Core Values Courses on a Student's Professional Life Sept – Oct, 2019
Awarded the **Best Paper Presentation** at the 13th 'Indian Students System Conference'

KEY ACHIEVEMENTS

- Received the **MITACS Globalink Research Scholarship 2022**, at the University of Western Ontario, Canada. Also eligible to receive the MITACS Globalink Graduate Fellowship (\approx CAD 15,000)
- Speaker @Google Developer Student Club on "The Fundamentals & Applications of ML"
- Regional Debate Champion and National Level Participant
- Top 15 of 3,000 students selected for a Student Exchange program with **Hong Kong University** (5).
- University representative and speaker at the Engineer's Day conference alongside **Mr. Sam Pitroda**, the renowned telecom innovator and policymaker.
- Selected - "**Frugal Innovation with Foldscope**" workshop, by Dr. Manu Prakash from **Stanford University**.

LEADERSHIP POSITIONS

- Founded 'MAA'(Mother)– a social enterprise to help village women achieve financial independence 2021
Work presented at the National Level of the AICTE Chattra Vishwakarma Award Competition
- University Chair, IEEE Women in Engineering 2020 – 2023
- Class Representative (University) 2019 – 2023
- School Head Girl & Student Body President 2018 – 2019
- *Member:* IEEE Computer Society, IEE, System Society Of India, University's Incubation Cell 2019 – 2023
- *Volunteer:* Society For Preservation Of Healthy Environment/Ecology/Heritage Of Agra 2012 – Present

TECHNICAL SKILLS

- *Languages:* C, Python, Java
- Masters Program from 'Simplilearn' in collaboration with IBM - Data Science with Python, ML, Deep Learning, Tableau, SQL, Microsoft Power BI
- Google Analytics Individual Qualification Certification - Advanced level

OTHER SKILLS

- Debate & Elocution, Dramatics, Vocal Music(*The Trinity College of London*), ABACUS
- **Instruments:** Piano, Keyboard, Harmonium, Flute, Tabla, Sitar