

# Keerti Panchakshari Charantimath

| News | Experience | Projects | Interests | Contact (mailto:keertipc7@gmail.com) |



Hello people on the internet! I am a Software Engineer at Microsoft India (<https://www.microsoft.com/en-in/msidc>), where I am working on developing Microsoft Cloud for Sustainability Products. Prior to this, I graduated among top of the batch, and received my Integrated Bachelors and Masters of Science in Mathematics and Computing from the Department of Mathematics, (<http://www.iitkgp.ac.in/departement/MA>) IIT Kharagpur (<http://iitkgp.ac.in/>).

Feel free to drop me an e-mail if you want to chat with me!

~ Email (mailto:keertipc7@gmail.com) | Resume ([https://drive.google.com/file/d/1Lgi7Jfzet0WFG6czjf0WEl-O\\_ILNxowY/view?usp=sharing](https://drive.google.com/file/d/1Lgi7Jfzet0WFG6czjf0WEl-O_ILNxowY/view?usp=sharing)) | GitHub (<https://github.com/keertipc7>) | LinkedIn (<https://www.linkedin.com/in/keerti-charantimath/>) ~

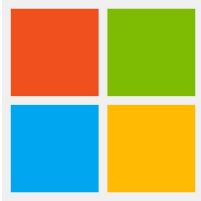
---

## News

- |         |   |
|---------|---|
| Oct '24 | Started volunteering at eVidyaloka Trust's BRAIN ( <a href="https://www.evidyaloka.org/brain">https://www.evidyaloka.org/brain</a> ) initiative.  |
| Jul '24 | Returned to Microsoft India as a full-time employee.  |
| May '24 | Started Product Management Internship at Algozenith Technologies Private Limited ( <a href="https://maang.in/">https://maang.in/</a> ).   |
| Sep '23 | Received a return offer from Microsoft India for a full time role.  |
| Aug '23 | Started working with Dr. Hari Shankar Mahato ( <a href="https://www.iitkgp.ac.in/departement/MA/faculty/mahsmahato">https://www.iitkgp.ac.in/departement/MA/faculty/mahsmahato</a> ) on the thesis project. |

|         |   |
|---------|---|
| May '23 | Started Software Engineering Internship at Microsoft India guided by Mr. Subhajit Chatterjee ( <a href="https://www.linkedin.com/in/subhajit-chatterjee-b9b53b44/">https://www.linkedin.com/in/subhajit-chatterjee-b9b53b44/</a> ).   |
| May '23 | Led the residence hall fine-arts team to win Gold in Inter-Hall Fine Arts Cup by competing against 20 other halls.  |
| Jan '23 | Won 3rd place in the Canvas Painting Event of Inter-IIT Socio-Cultural Meet 2022-23.  |
| Mar '22 | Started volunteering with Gopali Youth Welfare Society ( <a href="https://www.gyws.org/">https://www.gyws.org/</a> ).   |
| Sep '21 | Awarded the IASc-INSa-NASi Summer Research Fellowship ( <a href="https://www.jncasr.ac.in/academic/fandeprogrammes/srfp">https://www.jncasr.ac.in/academic/fandeprogrammes/srfp</a> ) for working under Dr. Anil Kumar Ghosh ( <a href="https://www.isical.ac.in/anil-kumar-ghosh">https://www.isical.ac.in/anil-kumar-ghosh</a> ). |
| Aug '21 | Started leading the university fine arts club as a Finance head.  |
| Apr '21 | Started working as a research intern with Dr. Nithin Nagaraj ( <a href="https://sites.google.com/site/nithinnagaraj2/home">https://sites.google.com/site/nithinnagaraj2/home</a> ).   |
| Jul '20 | Earned a department change to Department of Mathematics ( <a href="http://www.iitkgp.ac.in/department/MA">http://www.iitkgp.ac.in/department/MA</a> ) by gaining a rank to top 1% of the batch.   |
| Jul '19 | Started undergrad at IIT Kharagpur ( <a href="http://iitkgp.ac.in/">http://iitkgp.ac.in/</a> )!   |
| Jun '19 | Earned a rank in top 1% of JEE Mains and Advanced among 1 million+ aspirants.   |

## Experience



### Software Engineer | Microsoft India

July 2024 - Present

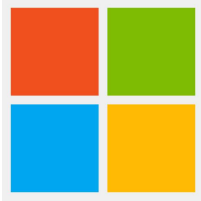
Working with Mr. Subhajit Chatterjee (<https://www.linkedin.com/in/subhajit-chatterjee-b9b53b44/>) on developing and maintaining Microsoft Cloud for Sustainability products. Resolved critical bugs, improved schema accessibility, and authored technical reports to streamline onboarding for new products. Engineered 30+ automated UI tests and optimized 20+ plugins, ensuring seamless front-end and database integration.



### Product Management Intern | Algozenith Technologies

May 2024 - July 2024

Worked with Vivek Gupta (<https://www.linkedin.com/in/acraider/>) and Shubham Patil (<https://www.linkedin.com/in/shubhampatil11698/>) on improving the Algozenith site (<https://maang.in/>). Revamped the coding ed-tech platform and launched impactful features. Improved user satisfaction to 80% and boosted engagement by 32% with features like leaderboards and an enhanced question bank.



## Software Engineering Intern | Microsoft India

May 2023 - June 2023

Under the guidance of my manager, Subhajeet Chatterjee (<https://www.linkedin.com/in/subhajit-chatterjee-b9b53b44/>), contributed to the Sustainability Manager Application by developing the "What-if Analysis" feature prototype. Designed a responsive React JS interface, automated backend calculations with API integrations, and empowered 500+ enterprises to make data-driven sustainability decisions.

## Projects



### Privacy Enhanced Conversational AI using Large Language Models

Aug 2023 - May 2024

Thesis project under Dr. Hari Shankar Mahato (<https://www.iitkgp.ac.in/departement/MA/faculty/ma-hsmahato>) at IIT Kharagpur (<https://www.iitkgp.ac.in/>) focused on building a privacy-enhanced LLM-based chatbot. Achieved 98% accuracy in answering queries from private datasets while eliminating data leakage risks using encryption and secure embedding storage on IPFS, offering a secure alternative to cloud-based LLMs.



### Learning Generalized Causal Structure in Time-series

Apr 2021 - Aug 2021

Worked as a Research Intern under Dr. Nithin Nagaraj (<https://niasconsciousnesscentre.org/team/nithin-nagaraj/>) and Dr. Aditi Kathpalia (<https://aditikathpalia.wordpress.com/>) at NIAS, IISc Campus (<https://www.nias.res.in/>), focusing on causal structure learning in time series. Developed and benchmarked models using Fourier transforms, chaotic maps, and machine learning, achieving 99% accuracy even in noisy and distribution-shifted scenarios.



## Methods of Estimation and their Applications

May 2021 - Jul 2021

Awarded the prestigious IASc-INSa-NASi Summer Research Fellowship (<https://www.jncasr.ac.in/academic/fandeprogrammes/srfp>) to work under Prof. Anil Kumar Ghosh (<https://www.isical.ac.in/anil-kumar-ghosh>) at ISI Kolkata. (<https://www.isical.ac.in/>) Researched statistical estimation methods like Maximum Likelihood and Method of Moments, developed an unbiased ranking model for incomplete data, and analyzed real-world cases, achieving alignment with the Bradley-Terry model.



## Comparative Study of Conventional and Genetic Algorithms based Classifiers

Jan 2021 - Apr 2021

Course project under Dr. Nirupam Chakraborti (<https://scholar.google.co.kr/citations?user=RONBrJ0AAAAJ&hl=en>) at IIT Kharagpur (<https://www.iitkgp.ac.in/>) for the course project of "Genetic Algorithms In Engineering Process Modeling" course. Designed a genetic algorithms-based multi-class classifier and feature selector focused on comparing conventional classifiers with genetic algorithm-based models.

## Interests

### Volunteering

Oct 2024 - Present

Volunteer Teacher at e-Vidyaloka trust (<https://www.evidyaloka.org/>) introducing AI and future-ready technology skills to class 8 students in Gobarhela village. Committed to teaching the course in Hindi, ensuring accessible technology education in rural areas.

Mar 2024

Was a design Intern at Gopali Youth Welfare Society (<https://www.gyws.org/>), transforming free hostels with hand-painted murals to enhance the living spaces of 60+ underprivileged children. Organized art competitions and workshops for 250+ students, promoting creativity at the NGO-run school.

## Leadership and Art

Aug 2022 - May 2023

Was Fine-Arts Cup Captain at SN/IG Hall of Residence (<https://hmc.iitkgp.ac.in/web/halls-of-residence/?hallid=SNH>), IIT Kharagpur. Led the team to win Gold place in the Fine-Arts Cup. outperforming 20 halls of residence in 5 competitive art events.

Jan 2023

Placed 3rd out of 50+ students in the Inter-IIT Painting Event, contributing to the Gold win in the So-Cult Meet 2022-23.

Aug 2021 - May 2022

Was the Finance and Gymkhana Head at Spectra (<https://www.facebook.com/Spectra.IITKGP/>), Fine-Arts Society, IIT Kharagpur, managing an annual budget of 60k+ for 7 events and workshops, engaging 100+ students. Successfully led virtual art events with 1.5k+ Instagram (<https://www.instagram.com/spectra.iitkgp/>) reach and organized an in-person art fair with 300+ entries and 5k+ attendees.

---

This template is a modification to Jon Barron's website (<https://jonbarron.info/>). Find the source code to my website here (<https://github.com/keertipc7/keertipc7.github.io>).