

Suvam Basak

Prime Minister's Research Fellow at *Indian Institute of Technology Kanpur*

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Research Interests	My research interests lie in the implementation and simulation of <i>Networked Systems</i> and the <i>Internet of Things</i> .	
Education	Indian Institute of Technology Kanpur (IIT-K)	Kanpur, Uttar Pradesh
	Ph.D. in Satellite Internet — Computer Science & Engineering	2022 – Present
	Advisor: Dr. Amitangshu Pal & Dr. Debopam Bhattacharjee CGPA: 8.75/10	
	University of Hyderabad (UoH)	Hyderabad, Telangana
	M.Tech. in Information Technology —	2020 – 2022
	School of Computer and Information Sciences collaboration with IDRBT Advisor: Dr. Satish Narayana Srirama CGPA: 9.61/10	
	West Bengal University of Technology (WBUT)	Kolkata, West Bengal
	B.Tech. — Computer Science & Engineering,	2014 – 2018
	CGPA: 8.6/10	
Research Experience	Cloud and Smart Labs	
	Advisor: Prof. Satish N. Srirama (UoH)	2021 – 2022
	An Integrated and Standards-based Fog Computing Federation Framework: Dynamic deployment of services on the fog nodes out of the box on the fly with OASIS TOSCA standard. GitHub .	
Teaching Experience	Teaching assistant, Department of CSE (IIT-K)	
	CS724 - Sensing, Communications and Networking for Smart Wireless Devices	2023-24-I
	CS610 - Programming for Performance	2022-23-I
	Tutor, Department of CSE (IIT-K)	
	ESC111M/112M - Fundamentals of Computing - I & II	2022-23-II
	Teaching assistant, eMasters in Financial Technology & Management (IIT-K)	
	MBA977 - IT Platforms, Cloud Computing, and IoT	2023-24
	Teaching assistant, eMasters in Cyber Security (IIT-K)	
	CS971 - Computer Networking II	2022-23
	CS963 - Computer Networking I	2022-23
Conference Publications	S. N. Srirama and S. Basak , "Fog Computing out of the Box with FogDEFT Framework: A Case Study," 2022 IEEE 15th International Conference on Cloud Computing (CLOUD), Barcelona, Spain, 2022, pp. 342-350, doi: 10.1109/CLOUD55607.2022.00057 .	
Journal Publications	Basak S , Srirama SN. Fog computing out of the box: Dynamic deployment of fogservice containers with TOSCA. Int J Network Mgmt. 2023 doi: 10.1002/nem.2246 .	
Workshop Publications	S Basak , A Pal, and D Bhattacharjee. Exploring Low-Earth Orbit Network Design. In Proceedings of the 1st ACM Workshop on LEO Networking and Communication (LEO-NET '23). ACM, NY, USA, 1–6. doi: 10.1145/3614204.3616103	
Honors and	Prime Minister's Research Fellowship (PMRF) — Cycle 11	2023 – 2026

Scholarships

AICTE scholarship in M.Tech. (Ministry of Education – India) 2020 – 2022
GATE qualified with 95%tile 2019 and 2020
Smart India Hackathon finalist (KL University, Guntur, Andhra Pradesh) 2017

Technical Skills

Programming

Proficient in: *C, Python* – Familiar with: *Flask, Verilog, Dart, Flutter, Solidity, JavaScript, Java*

Tools & Softwares: *Gurobi Optimizer, Ansible, Docker, Docker Swarm, TOSCA*

Hardware: *Raspberry Pi, Arduino*

Referees

Dr. Amitangshu Pal, *Assistant Professor*

Department of Computer Science & Engineering at *Indian Institute of Technology Kanpur* – India

E-mail: amitangshu@cse.iitk.ac.in, **Web:** cse.iitk.ac.in/users/amitangshu

Dr. Debopam Bhattacharjee, *Senior Researcher at Microsoft Research* – India

E-mail: debopamb@microsoft.com, **Web:** bdebopam.github.io

Prof. Satish Narayana Srirama, *Professor (Member IEEE)*

School of Computer and Information Sciences at *University of Hyderabad* – India

E-mail: satish.srirama@uohyd.ac.in, **Web:** scis.uohyd.ac.in/~srirama