Suvam Basak

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

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Research Interests Implementation and **simulation** of *Networked Systems* and the *Internet of Things*. Education **Indian Institute of Technology Kanpur (IIT-K)** Kanpur, Uttar Pradesh Ph.D. in LEO Satellite Broadband — Computer Science & Engineering 2022 - Present Advisor: Dr. Amitangshu Pal & Dr. Debopam Bhattacherjee CGPA: 8.75/10 University of Hyderabad (UoH) Hyderabad, Telangana M.Tech. in Information Technology — 2020 - 2022School 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 - 2018CGPA: 8.6/10 Research Experience **Cloud and Smart Labs** Advisor: Prof. Satish N. Srirama (UoH) 2021 - 2022An 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** Course Instructor, CSJM University (UIET) CSE-S208 - Data Structure Using Python 2023-24-II 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 S. N. Srirama and S. Basak, "Fog Computing out of the Box with FogDEFT Framework: A Case **Publications** 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 Bhattacherjee. 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)

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, OpenStack,

2017

QEMU/KVM

Hardware: Raspberry Pi, Arduino

Referees Dr. Amitangshu Pal, Assistant Professor

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

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 ${f Dr.\ Debopam\ Bhattacherjee},$ Senior Researcher at Microsoft Research — India

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Prof. Satish Narayana Srirama, Professor (Member IEEE)

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