PRASENJIT KARMAKAR

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Google Scholar

EXPERIENCE

Doctoral Researcher

Indian Institute of Technology Kharagpur

Apr 2022 - Ongoing

Kharagpur, India

• Currently working on Pervasive and Ubiquitous Computing.

Systems Engineer

Tata Consultancy Services

Mov 2020 - Mar 2022

Bangalore, India

• Worked as a Full-stack developer and primarily used Lit-Element, React to build Web components and Flask for REST endpoints.

Research Intern

National Institute of Technology Durgapur

Sep 2019 - Sep 2020

Durgapur, India

• Worked in projects related to the application of AI in environment monitoring, smart-city transport, resource allocation in wireless networks.

PUBLICATIONS

- Journal Articles
 Choudhury, B., Karmakar, P., Shah, V. K., & Reed, J. H. (2022). Learning based age of information minimization in uav-relayed iot networks. arXiv preprint arXiv:2203.04227.
- Karmakar, P., Shah, V. K., Roy, S., Hazra, K., Saha, S., & Nandi, S. (2022). Reliable backhauling in aerial communication networks against uav failures: A deep reinforcement learning approach. IEEE Transactions on Network and Service Management, 19(3),
- Mandal, R., Karmakar, P., Chatterjee, S., Spandan, D. D., Pradhan, S., Saha, S., Chakraborty, S., & Nandi, S. (2022). Exploiting multimodal contextual sensing for city-bus's stay location characterization: Towards sub-60 seconds accurate arrival time prediction. ACM Transactions on Internet of Things.
- Pramanik, P., Karmakar, P., Sharma, P. K., Chatterjee, S., Roy, A., Mandal, S., Nandi, S., Chakraborty, S., Saha, M., & Saha, S. (2022). Aquamoho: Localized low-cost outdoor air quality sensing over a thermo-hygrometer. ACM Transactions on Sensor Networks.

Conference Proceedings

- Sen, A., Mandal, A., Karmakar, P., Das, A., & Chakraborty, S. (2023). Mmdrive: Mmwave sensing for live monitoring and On-Device inference of dangerous driving. In IEEE PerCom 2023, arXiv preprint arXiv:2301.08188, Atlanta, USA.
- Sharma, P. K., Karmakar, P., Chatterjee, S., Roy, A., Mandal, S., Chakraborty, S., Nandi, S., & Saha, S. (2021). Can i go for a roof walk today? know your housing's air quality from a thermohygrometer. In ACM BuildSys 2021 (Pages 91-100).
- Mandal, R., Karmakar, P., Roy, A., Saha, A., Chatterjee, S., Chakraborty, S., Saha, S., & Nandi, S. (2020). Ad-hocbuspoi: Context analysis of ad-hoc stay-locations from intra-city bus mobility and smartphone crowdsensing. In ACM SIGSPATIAL 2020 Posters (Pages 457-460).

LIFE PHILOSOPHY

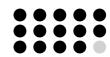
"If you don't have any shadows, you're not standing in the light."

STRENGTHS

Data Analytics Deep Learning Reinforcement Learning Mobile Sensing Web Components Microservices C/C++ Python 3 JavaScript ES6

LANGUAGES

English Bengali Hindi



EDUCATION

Ph.D. in Computer Science 18.93 **Indian Institute of Technology Kharagpur**

Jul 2022 - Ongoing

B.Tech in Computer Science |9.13 Maulana Abul Kalam Azad University of **Technology**

i Jun 2016 - Jul 2020

10+2th in Science |85.4%

West Bengal Council of Higher Secondary Education

Feb 2014 - Mar 2016

Madhyamik (10^{th}) |88%

West Bengal Board Of Secondary Education

i Jan 2013 - Feb 2014

REFEREES

Dr. Sandip Chakraborty

- @ IIT Kharagpur, India

Dr. Subrata Nandi

- NIT Durgapur, India

Dr. Vaneet Aggarwal

- Purdue University, United States