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<https://github.com/ParthaPRay>



<https://scholar.google.com/citations?user=iopl-fagAAAAJ>

EDUCATION



Pursuing

PhD in IoT and AI

Sikkim University



2011



M.Tech. (Embedded Systems)

West Bengal University of Technology



2008

B.Tech. (Computer Science and Engineering)

West Bengal University of Technology

CORE COMPETENCIES

Research & Development



Edge Computing



IoT Ecosystem Development



Artificial Intelligence



Data Analytics and Interpretation



IoT Consultancy



Strategic Development



Project Management



TECHNICAL SKILLS

Python



R Programming



IoT Programming



IoT Cloud



Microcontroller



Edge Analytics Tools



PERSONAL DETAILS

Date of Birth: 9th February 1986

Languages Known: English, Hindi & Bengali

Location: West Bengal

PARTHA PRATIM RAY

OBJECTIVE

Utilizing over 11 years of diverse experience in academia and industry to excel in a challenging role in IoT and AI, targeting R&D sector in IoT with a focus on IoT Ecosystem Development, Edge Computing, AI Innovation, and Strategic Development.

PROFILE SUMMARY

- Displayed expertise in Edge Computing, IoT, and Edge-AI Analytics, with a strong track record of successful integration across academia and Industry 4.0.
- Currently designated as an Assistant Professor at Sikkim University, providing mentorship and leading the consultancy for the establishment of Intel IoT Center.
- Proficient in a wide range of technical skills including edge analytics, Python, R, generative AI, communication protocols, IoT programming, IoT cloud platforms, and microcontrollers, enabling comprehensive expertise in IoT and AI technologies.
- Spearheaded the establishment of the Intel IoT Center, contributing to IoT innovation and strategic development, resulting in an increase in industry partnerships and an increase in research funding.

WORK EXPERIENCE

Assistant Professor | Sikkim University (Central University) | (Jul'12-Present)

- Nurturing and guiding students in a research capacity, creating an environment conducive to learning and growth.
- Leading the consultancy for the establishment of the Intel IoT Center, contributing to strategic development.
- Providing key inputs in policy making and entrepreneurship cell monitoring, ensuring successful implementation.
- Implementing a new curriculum for IoT and AI, resulting in an increase in student engagement and student project submissions, enhancing the learning experience.
- Leading the development of a collaborative research project with industry partners, resulting in an increase in research funding and industry partnerships, fostering a culture of innovation and collaboration.
- Initiating and facilitating student-centric programs, workshops, or clubs aimed at enhancing student engagement, academic support, and overall development.
- Contributing significant inputs in policy formulation, leveraging expertise in academia to shape policies fostering entrepreneurship and innovation within the institution.

Assistant Professor | Surendra Institute of Engineering and Management | (Jan'12- Jun'12)

- Provided guidance and mentorship to students in a research capacity, fostering an environment conducive to learning.
- Spearheaded the design, development, and enhancement of academic curricula aligned with industry trends and academic standards, fostering an enriched learning experience.
- Engaged in interdisciplinary research collaborations, contributing to publications in reputable journals or conferences, thereby enhancing the institution's academic reputation.
- Displayed dedication to academia and research, contributing to the academic community.
- Initiated and led a faculty development program focused on IoT and AI, resulting in an increase in faculty participation and research publications, enhancing the academic community's expertise in emerging technologies.

PROJECTS UNDERTAKEN

- Innovated the Leaf Monitoring System, utilizing IoT for plant health and temperature assessment.
- Engineered a React-based web information system for medicinal plants, hosted on GitHub.
- Orchestrated the development of a web application for IoT-powered pipeline inspection robots.
- Spearheaded the creation of a smart irrigation system leveraging IoT capabilities.
- Founded and established the Intel IoT Center as a hub for IoT innovation.
- Directed extensive studies on time series databases tailored for IoT applications.
- Innovated a next-generation smart irrigation system, integrating advanced IoT features.
- Led the development of a web application for dynamic graphical data visualization using TypeScript.
- Conceptualized Boilerplate-as-a-Service for real-time health monitoring through IoT.
- Devised a strategy for transmitting electronic health records via a blockchain-assisted decentralized network using IPFS.
- Analyzed and optimized rating algorithms for e-commerce platforms, enhancing operational efficiency.
- Managed the deployment of Apache Edgent, improving IoT design functionalities.
- Developed an interoperable IoT smart gateway, enabling seamless device communication.
- Designed an IoT-based autonomic robot, integrating cutting-edge technologies.
- Implemented visible light communication using a 650nm laser between two IoT devices.
- Created an interactive Android quiz application to enhance user engagement and learning.

CERTIFICATIONS

- Mastering Digital Twins from Coursera in Jun'19
- Blockchain Expert-V2 from Blockchain Council during Oct'18
- Blockchain and Bitcoin Fundamentals from Udemy during Oct'18
- Blockchain Advanced Level: Uses Beyond Bitcoin 2018 from Udemy during Oct'18

ACHIEVEMENTS

- Recognized as a Top 2% Scientist by Stanford University from 2020 to 2023.
- Received the "IEI Young Engineers Award 2019-20" in the year 2020.
- Honored with the "Emerald Literati Awards" in 2019.
- Granted the "Young Scientist" award in 2017.
- Bestowed with the "Bharat Vikas Award" in 2017.
- Achieved the "Academic Excellence Awards" in 2017.
- Attained the "Young Achiever Award" in 2018.
- Selected for the Science Academies' Summer Research Fellowship Programme in 2013.
- Awarded a Post Graduate Scholarship from 2009 to 2011.

EXTRACURRICULAR ACTIVITIES

- Published over 105 journal and 29 conference articles, displaying a strong research and publication track record.
- Filed 7 national patents, showcasing a commitment to innovation and intellectual property.
- Participated as a volunteer in IEEE CTSoc and IEEE DewCom STC.