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|  | |  |  | | --- | --- | |  | **CONTACT** |  |  |  | | --- | --- | |  | +91 7908402850 | |  | parthapratimray1986@gmail.com | |  | https://www.linkedin.com/in/partha-pratim-ray-9a6491216 | |  | https://github.com/ParthaPRay | |  | https://scholar.google.com/citations?user=ioplfagAAAAJ |  |  |  | | --- | --- | |  | **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. | |

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|  |  | |  |  | | --- | --- | |  | **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. |