Pushpak Das

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Education

National Institute of Technology Meghalaya, Computer Science and Engineering — Meghalaya, India — 2021 – 2026

Birla Institute of Technology, Mesra, Software Engineering — Jharkhand, India — 2013 – 2015

Experience

NOKIA, Research Intern — Bangalore, India — Jan 2024 – July 2024 — 7 months

Investigated energy-efficient architectural strategies for 3GPP-compliant vehicular communication systems, analysing optimization opportunities across the RAN, transport, and core network domains.

- Explored how network intelligence functions such as NWDAF-assisted analytics and policy-driven orchestration can support adaptive resource allocation for V2X workloads under mobility-driven traffic dynamics.
- Studied the role of MEC-enabled edge computing, UPF placement strategies, and network slicing mechanisms in reducing end-to-end latency and power consumption for automotive service chains.
- Contributed to system-level discussions on sustainable 5G-Advanced and pre-6G architectures, aligning research insights with ongoing standardization directions in green networking and intelligent network automation.

National Institute of Technology Meghalaya, Research Fellow — Meghalaya, India — 2021 – 2026 — 5 years

Conducting research on energy-efficient and intelligent computing systems, with a focus on sustainable

National Institute of Technology Meghalaya, Junior Research Fellow — Meghalaya, India — 2019 – 2020 — 1 year

Collaborated synergistically with NIT Meghalaya, the North Eastern Regional Load Despatch Center (NERLDC) Shillong, and the Power System Operation Corporation (POSOCO) to conceive and implement an expert system to detect and classify faults in the North Eastern region power grid.

National Institute of Technology Patna, Junior Research Fellow — Patna, India — 2018 – 2019 — 1 year

Investigated Kaldi for keyword spotting (KWS) within speech sequences, targeting identification of words of interest to advance speech processing methodologies.

Bengal College of Engineering and Technology, Assistant Professor — Durgapur, India — 2018 – 2018 — 1 year

Delivered undergraduate and post-graduate courses in Artificial Intelligence and Machine Learning, fostering foundational knowledge and practical skills among students.

Moti Baba Institute of Technology, Assistant Professor — Forbesganj, India — 2016 – 2017 — 1 year

Delivered undergraduate courses in Computer Science and Engineering, such as Data Structures, Algorithms, Computer Networks, and Software Engineering, contributing to the academic development of students.

Volunteer

Ranchi Design and Consultancy Services, Software Architect — Ranchi, India — 2015 – 2016

Managed full deployment lifecycle including sandbox development, system integration, testing, and production release, ensuring reliable end-user delivery of enterprise CRM solutions.

Skills

Programming

AI and Machine Learning

Scientific Computing

Distributed and Edge Systems

Simulation and System Modeling

Systems and Development Tools

Soft Skills

Languages

Maithili
Native speaker

Hindi
Fluent

English
Fluent

Interests

Physics