



भारतीय
प्रौद्योगिकी
संस्थान
काशी हिन्दू विश्वविद्यालय



INDIAN
INSTITUTE OF
TECHNOLOGY
BANARAS HINDU UNIVERSITY

संगणक विज्ञान एवं
अभियांत्रिकी
विभाग

Department of
Computer Science and Engineering

CERTIFICATE OF INTERNSHIP COMPLETION

This is to certify that Mr. Ashutosh Nayak, a student of B.Tech (Honours) in Computer Science and Engineering (Artificial Intelligence) at the University Teaching Department, Chhattisgarh Swami Vivekanand Technical University (CSVТУ), Bhilai, has successfully completed his internship program at the Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi, from 17th February 2025 to 20th June 2025.

During the internship, he worked on research and project implementation under my supervision, primarily focusing on Doctor Recommendation Systems by fine-tuning open-source Large Language Models (LLMs). His contributions also extended to Genetic Algorithms, Technical Diagrams, and Technical Writing.

Key responsibilities and contributions*:

- Doctor Recommendation System using LLMs: Worked on fine-tuning an LLM model utilizing doctor-fee prediction based on the Practo dataset. The system recommended doctors to patients based on predicted diseases derived from symptom inputs, and further refined recommendations based on city/location, years of experience, and consultation fee preferences. The completion of this work is still in progress.
- Genetic Algorithms for Connectivity Application: Learned Genetic Algorithm to optimize UAV based connectivity, aiming to improve network efficiency in an IoT network. The completion of this work is still in progress.

Tools explored and utilized:

- Overleaf (LaTeX): For academic writing and structured document preparation
- Draw.io: For designing technical diagrams and system architectures
- Microsoft Excel: For project cost estimation and budgeting
- Microsoft PowerPoint: For preparing and presenting research findings

Throughout the internship, Mr. Ashutosh Nayak displayed remarkable dedication, self-initiative, and a strong eagerness to learn. His work reflected a solid understanding of theoretical concepts coupled with practical implementation skills. I am confident that the knowledge and experience gained during this internship will serve him well in his future academic and professional pursuits.

I extend my best wishes for his continued growth and success.

भवदीय/Regards:

अजय प्रताप, पीएच.डी.

Ajay Pratap, Ph.D.

सहायक आचार्य,

Assistant Professor,

संगणक विज्ञान एवं अभियांत्रिकी विभाग,

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Indian Institute of Technology (BHU), Varanasi, India.

<https://www.iitbhu.ac.in/dept/cse/people/ajaycse>

* The intern is not permitted to disclose any of his projects done during the internship without prior written approval from me.



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