

Madhusnuhi Panda

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EDUCATION

KIIT Deemed to be University , Bhubaneswar, Odisha	Oct 2021 – Sept 2025
Bachelor of Technology in Computer Science (CGPA: 9.35/10)	
Relevant Coursework: Data Structures and Algorithms, Machine Learning and Data Analytics, Database Management Systems, Compiler Design, Operating Systems, Computer Networks	

ACADEMIC / INDUSTRY EMPLOYMENT

Pine Labs Private Limited , Bangalore, India	
Software Engineer	Nov 2025 – Present
Software Development Engineer Intern	Nov 2024 – Nov 2025
Engineered and optimized SQL stored procedures for transactional data integrity in large-scale financial systems. Automated ETL pipelines for financial reporting, reducing execution time by 10–15 percent. Worked with Git and Bitbucket for version-controlled development and deployment.	
Providence India , Hyderabad, India	
Service Engineer Intern	May 2024 – Jul 2024
Developed interactive dashboards using Drupal, JavaScript, PHP, HTML/CSS. Implemented role-based access control for secure system usage. Built automated email notification workflows for performance reporting.	

PROJECTS AND RESEARCH WORK

Differentially Private Neural Machine Translation	Code
German–English NMT using bidirectional GRU and attention; differential privacy achieved through Gaussian gradient noise; evaluated using BLEU scores.	
Encrypted NLP Pipeline on WhatsApp Chat Dataset	Code
DistilBERT-based sentiment classifier over 16,000+ encrypted messages; simulated secure preprocessing and real-time inference.	
Heart Disease Prediction Algorithm	Code
Decision Tree classifier using Kaggle dataset; achieved 80% accuracy for binary clinical prediction.	

PUBLICATIONS

Automation and Monitoring using IoT in Pisciculture

Published in IEEE SeFeT 2022. Developed IoT-based real-time monitoring model for aeration, temperature, and pH regulation in aquaculture systems.

Real-time Session Monitoring Application using Machine Learning Algorithms

Springer LNNS, Proceedings of ICIT 2025 (First Author). Achieved 97.36% accuracy using behavioral anomaly detection for session duration monitoring.

AWARDS AND ACHIEVEMENTS

Award for Outstanding Scholastic Performance for securing more than 90% in three science subjects and 100% in one subject in the ISC Examination (Class XII).

TECHNICAL SKILLS

Languages: Python, C, C++, Java, SQL, JavaScript, Shell Scripting, HTML/CSS

Machine Learning & NLP: PyTorch, TensorFlow, Transformers, Scikit-learn, BLEU score, Differential Privacy, NLTK, SpaCy

Tools: SSMS, SQLyog, Jupyter Notebook, VS Code, Google Colab, Tableau, Drupal