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 Algorithm
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