




SUBHAM PATTNAIK

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PROFESSIONAL EXPERIENCE

- RESEARCH INTERN**, Science and Engineering Research Board (SERB) Aug 2024 – Sep 2024
Silchar, India
- Optimized digital twin simulations for industrial applications through advanced data analysis.
 - Enhanced predictive accuracy of digital twins by integrating mathematical models and machine learning.
- Satyendra Nath Bose Summer Intern**, National Institute of Technology Silchar Jun 2024 – Jul 2024
Silchar, India
- Developed machine learning algorithms for RUL prediction, analyzing large-scale datasets.
 - Applied data-driven optimization and collaborated with a research team to improve accuracy and efficiency, achieving 0.9602R² score.
- Full Stack Developer**, National Aluminum Company Limited (NALCO) Jan 2024 – Feb 2024
Damanjodi, India
- Built C++ full-stack apps to streamline industrial processes with cross-functional teams.
 - Integrated data analytics for production insights and predictive maintenance using new technologies.
- Assistant Supervisor**, Forever Living Products Jan 2022 – Sep 2023
- Generated a total revenue increase of ₹75,000 by efficiently managing customer orders and maintaining accurate records, contributing to improved operational performance.
 - Increased product marketing effectiveness by 11% through in-depth knowledge of the natural Aloe Vera product line, providing exceptional customer service and supporting targeted marketing strategies.

EDUCATION

- Bachelor of Technology**, NIST University Dec 2021 – present
Specialization In Machine Learning and Data analytics.
CGPA: 8.01/10.0
Berhampur, India

PROJECTS

- Precision Pathodiagnosics for Solanum Tuberosum Disease Detection**
- Engineering a YOLOv8 model for early potato disease detection.
 - Achieving 98.01% accuracy with CNN, in collaboration with agricultural experts.
- AI-based Automated Alarm Generation and Payload Dropping for Drones**
- Devised an AI system for autonomous drone operations with object detection for target identification.
 - Designed algorithms for optimal flight paths and payload delivery, achieving 99% target accuracy and 72% success.

TECHNICAL SKILLS

Programming Skills – Python | C , **Machine Learning / AI** – Deep Learning | Neural Networks | Computer Vision, **Data Science & Analytics** – Data Analysis | Statistical Modeling | Data Visualization | Big Data Analytics, **Database Technologies** – MySQL | SQL, **Tools & Frameworks** – PyTorch | Scikit-learn | Pandas | NumPy, **UI/UX** – XML | HTML | React

CERTIFICATES

- Science and Engineering Research Board (SERB)**
- Digital Twin Technology for Industrial Application
- National Institute of Technology Silchar**
- S N Nose Internship Program
- National Skill Development Corporation (NSDC)**
- SQL for Data Analytics
 - Full Stack Web Development
 - Android App Development
- National Aluminum Company Limited**
- Vocational Training on Web Development
- National Program for Technology Enhanced Learning**
- E-Waste Management System
- National Children Science Congress**
- Sustainable Water and Agriculture

INTERESTS

Travelling | Crafting | Cooking | Gardening