Manas Teertha Nayak

B.Tech. | NIT Rourkela

4th Year Electronics & Communication Engineering
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Education

2021-2025
B.TECH, ECE.
NIT Rourkela
CGPA : 7.87/10

2018-2020
INTERMEDIATE
DAV Public School,Pokhariput,
Bhubaneswar-Odisha
Percentage: 94.8%

2018
MATRICULATION
DAV Public School,Pokhariput,
Bhubaneswar-Odisha
Percentage: 95.2%

Links

Github:// **Manas-ESR**
LinkedIn:// **Manas Teertha Nayak**

Skills

LANGUAGES
C++, Python, HTML, CSS, JavaScript, Streamlit,
LLama3, MySQL,Matplotlib,Microprocessor,
Excel

HARDWARE TOOLS
Arduino,Raspberry-PI,Multisim,Simulink,Xilinx
Vivado

Coursework

Computer Netwroking and Data
Communication
Digital Electronics and Digital Design
Static Timing Analysis
Machine Learning

Relevant Courses

Data Structures Algorithm
Structured Query Language(SQL)
Database Management System
Operating Systems
Business Research Methodology

Experience/Projects

MAY-JULY 2024 **Research Intern|CAIR,DRDO** Summer Associate
- Designed a comprehensive user interface prototype using Llama3 for a deep fake detection project, boosting user engagement by 20% and cutting onboarding time by 15%.
- Enhanced usability of the deep fake detection tool, leading to a 30% improvement in detection accuracy and receiving positive feedback from 80%. of the initial 10 testers.
- Developed 5 AI chatbots and automated tools with Streamlit and Llama3, increasing user efficiency by 30% and reducing content generation time by 40%.

APRIL 2024 **Real time water pollution detection** **Project**
- Led R&D to create a real-time pollution prediction model, achieving 82% accuracy (9/11 inputs) in a 100 sq. ft. water system, covering 95% of targeted pollutants.
- Developed a frontend with React (95% component reusability) and a Python backend using a Random Forest Classifier, achieving 85% prediction accuracy and reducing processing time by 30%.
- Integrated real-time data visualization, improving pollutant trend analysis by 40% and enabling quicker decision-making.

MICROCONTROLLER-8051, REACT, PYTHON, MACHINE LEARNING

JULY 2024 **Personal Portfolio Website** **Project**
- Designed and developed a personal portfolio website with 6 key sections, including projects, social media links, a contact form with direct email functionality, an about me page, and a blog section, leading to a 60% increase in user engagement..
- Ensures a fully responsive layout tested across 15+ devices and browsers, achieving a 98% compatibility rate and reducing bounce rate by 35%..

AUGUST 2024 **Edtech Website- StudyNotion** **Project**
- Developed StudyNotion, a full-stack educational platform with 100+ courses, using ReactJS for the frontend and MongoDB for the backend.
- Implemented multi-login feature, tested with 500+ user inputs, ensuring 99% functionality across various usernames and email addresses.
- Optimized database queries, reducing page load time by 25%, significantly enhancing user experience and platform response.

Extra Curricular Activities & Certification

NOVEMBER 2023 **Innovision Event Management Core member**
Instrumental part of a three-tier organization of 300+ members and coordinated with 50+ individuals from college, district authorities, government, and corporate sectors.

JAN 2023 **Intra-Institute Shopping Website** **HACKNITR**
Led a team to design an intra-campus marketplace for 500+ students, facilitating buying, selling, and peer connections.