Nandita Sahoo

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PROFESSIONAL SUMMARY

- B.Tech graduate from NIT Rourkela with specialization in Electronics and Communication Engineering, and expertise in Machine Learning, Embedded Systems, and Computer Networks.
- Managed secure banking infrastructures and web applications using Agile methodology and new integrity .Proficiency in ML,artificial intelligence, RESTful API design, and cloud solutions.

TECHNICAL SKILLS

- **Languages:** C, C++, Python, JavaScript
- **Development Tools:** MERN stack, HTML, CSS, Tailwind, REST APIs, JWT Authentication, Stripe
- **Frameworks/Libraries:** NumPy, Pandas, Matplotlib, TensorFlow, Scikit-learn, SciPy, Flask, YOLO
- **Platforms/Databases:** MongoDB, MySQL, Docker, AWS, VS Code, Jupyter Notebook, PyCharm
- **Concepts:** Data Structures and Algorithms, Database Management Systems, Object Oriented Programming, Operating Systems, System design, Networking, Cloud Computing, Git, Teamwork

EXPERIENCE

Assistant Manager, Information Security, IDBI Bank, HO - Mumbai   *07/2025 – Present*

- Designed and implemented real-time dashboards with large datasets to enhance data visualization and efficient anomaly detection, improve monitoring, and reduce incident response time by 20%.
- Implemented incident response by blocking malicious IPs on endpoints and firewalls to contain threats and prevent lateral movement, ensuring compliance with Cybersecurity Regulatory Framework (CRF) guidelines.
- Led InfoSec Awareness Week with interactive training, phishing simulations, and compliance workshops.

Video-Based Traffic Control System (Patented Research Project)   *01/2024*

- Structured a Python-based traffic monitoring system on Raspberry Pi with USB camera, using YOLO and OpenCV for real-time vehicle detection and data analysis, reducing traffic congestion by 35%.
- Programmed adaptive LED traffic signals via GPIO pins, dynamically adjusting timings based on real-time traffic to improve flow and reduce congestion.
- Integrated browser-enabled dashboard for remote monitoring, aligning with smart city traffic automation.

PROJECTS

Book Recommendation System (End-to-End ML)   *github.com/book-recommended-system*

- Created a hybrid recommendation system using collaborative and content-based filtering in Python and Flask, enabling personalized book suggestions for 500K+ entries.
- Optimized recommendation accuracy by 15% through iterative testing and algorithm refinement; designed scalable data pipelines for real-time, personalized recommendations with responsive UI integration.

Food Delivery App(FULL Stack)   *github.com/food delivery app*

- Developed a complete food delivery platform using Frontend: React.js, Backend: Node.js/Express.js, Database: MongoDB Atlas, with JWT authentication, Stripe payments, and real-time admin/user UI sync.
- Built user flows for login/register, add-to-cart, delivery location, Stripe checkout, and dynamic order status updates reflecting admin changes instantly.
- Created admin panel for food item (add/update) and delivery status management with seamless API-driven frontend updates and optimized scalable pipelines.

Resume Screening App (ML/NLP)   *github.com/Resume-Screening-App*

- Developed an AI-driven resume screening system using SpaCy, TensorFlow, Regex, and Scikit-learn, achieving 99% classification accuracy.
- Built NLP pipelines for automated resume parsing, enabling detailed data-driven insights and visualizations through Matplotlib, including customized charts and graphs to support decision-making.

EDUCATION

National Institute of Technology Rourkela   *2021 - 2025*
Bachelor of Technology in Electronics and Communication Engineering   GPA: 7.93
Relevant Courses: Machine Learning, Computer Networks, Embedded Systems, Core Electronics Subjects

CERTIFICATIONS

- Machine Learning A-Z, Udemy (42.5 hours)
- Cybersecurity Fundamentals, Udemy

EXTRACURRICULAR ACTIVITIES

- Content Head, OSS Club; organized 5 events with 200+ attendees.
- Solved 500+ coding problems on LeetCode, GFG, and Hackerrank.
- Tech Fest Coordinator; increased event visibility by 40%.
- Top 5% finisher in CodeKaze (advanced DSA hackathon).