

OM PRASAD SAHOO

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EDUCATION

NIST University — Berhampur, Odisha

Bachelor of Technology in Computer Science and Engineering

2024 – 2028

CGPA: 9.29 / 10.0

Samanta Chandra Sekhar Higher Secondary School — Puri, Odisha

Higher Secondary Certificate (CHSE) – Science

2021 – 2023

Score: 78.0%

TECHNICAL SKILLS

Programming Languages: C++, C, Python, Java, SQL, TypeScript, HTML5, CSS3

Data Science & Machine Learning: Natural Language Processing (NLP), Scikit-Learn, RapidOCR, NumPy, Pandas, Matplotlib, Predictive Analytics

Core CS Competencies: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), DBMS, Academic Writing

Developer Tools & Platforms: Git, GitHub, VS Code, Google Colab, Jupyter Notebook, Streamlit, Docker, Vite, Netlify

Spoken Languages: English (Professional), Odia (Native), Hindi (Conversational)

TECHNICAL PROJECTS

Career Intelligence Engine | Python, Streamlit, Scikit-Learn, RapidOCR, NLP

[Live Demo](#) • [GitHub](#)

- Engineered an AI platform providing neural OCR multi-format resume parsing (PDF, DOCX, Images) with explainable ATS diagnostics across keyword matching, quality scoring, and tenure.
- Built a hybrid job-compatibility ranking engine evaluating candidate fit across 3,500+ tech openings via TF-IDF cosine similarity, Jaccard overlap, and experience proximity.
- Integrated regularized regression for multi-variable salary compensation prediction and generated personalized 4-phase learning roadmaps with milestone projects.

Urban Risk Intelligence | TypeScript, React, Vite, Tailwind CSS, Predictive Analytics

[Live Demo](#) • [GitHub](#)

- Architected an interactive urban intelligence dashboard centralizing spatial condition metrics, risk timeline forecasting, and emergency alert workflows.
- Engineered modular analysis interfaces including AI Engine Inspector, multi-city analytics comparisons, data health diagnostics, and granular cell risk evaluation.
- Designed a responsive, accessible command center and citizen-facing portal for data-driven municipal risk communication.

INTERNSHIPS & ACADEMIC EXPERIENCE

Cloud Collaborative Machine Learning Intern — NIST University

2nd Year

- Gaining practical exposure to machine learning workflows in cloud-based collaborative environments.
- Developing and evaluating ML pipelines, data preprocessing routines, and real-world predictive models.

Object-Oriented Programming with C++ Intern — NIST University

1st Year

- Mastered advanced OOP paradigms (classes, inheritance, polymorphism, encapsulation, memory management) in C++.
- Applied structured algorithms and data structures to solve complex computational problems.

Machine Learning & Applied AI Trainee — AWS Academy & Online Labs

Certified Training

- Completed intensive hands-on lab modules focused on machine learning pipeline design, model training, and NLP evaluation on AWS.

CERTIFICATIONS & HONORS

- AWS Academy Graduate:** Machine Learning for Natural Language Processing (NLP)
- AWS Academy Graduate:** Machine Learning Foundations Training
- C++ Essentials 1 & 2:** Cisco Networking Academy / OpenEDG
- C Essentials 1:** Structured Programming Foundations
- Data Science Specialization:** Data Analysis and Predictive Modeling

- **Tata Crucible Campus Quiz:** Qualified Prelims Level 1 Assessment
- **Academic Writing & AI Workshop:** Certified in technical communication & applied AI tools