

# PREDIKTA NAYAK

Rourkela, Odisha

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## Education

### XIM University

Bachelor of Technology in Computer Science(8.58 cpga)

August 2022 – March 2026

Bhubaneswar, Odisha

### Dr. A. N. Khosla DAV School

12th Boards, CBSE (85%)

June 2019 – March 2021

Rourkela, Odisha

### Chinmaya Vidyalaya(E.M.)

10th Boards, ICSE (94%)

May 2018 – March 2019

Rourkela, Odisha

## Relevant Coursework

- Programming in C
- Data Structures and Algorithms
- Programming in Python
- Artificial Intelligence
- Operating Systems
- Discrete Mathematics
- Database Management Systems
- Computer Networks
- Full Stack Web Development
- Optimization Techniques
- Data Mining and Data Warehousing
- Information Theory and Coding
- Machine Learning
- Natural Language Processing
- Computer Vision and Image Processing

## Projects

### Spatial Interpolation — C, Data Analytics

2022

- Estimated weather conditions without recorded data using known conditions at nearby weather stations.
- Implemented techniques such as Kriging and Inverse Distance Weighting (IDW).
- Developed geospatial software modules and published research on spatial interpolation algorithms.

### Library Management System — Python, SQL

2023

- Developed a database-driven library management system to manage books, patrons, and transactions.
- Designed a user-friendly interface with data validation and error handling.

### Space Exploration — HTML, CSS, JavaScript, MySQL

2024

- Developed a web application to explore space-related information with SQL for backend development.
- Crafted an intuitive interface with visualizations to enrich user interaction.

### Exam Eye — Python, MySQL, Data Analytics

2024

- Designed an automated online proctoring system using OpenCV and machine learning technologies.
- Implemented features such as real-time identity verification and session recording.
- Integrated alerts and stored recorded sessions in a database.

## Technical Skills

**Languages:** Python, C, MySQL, HTML, CSS

**Tools/Software:** NumPy, Pandas, Matplotlib, Seaborn

**Methodologies:** Problem Solving, Business Communication, Data Analysis, Project Management