

# AMRITANSHU BARPANDA

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## Education

### National Institute of Technology, Rourkela

*Bachelor of Technology in Electronics and Instrumentation Engineering (CGPA - 7.74)*

August 2023 – Present

*Rourkela, Odisha*

### Delhi Public School, Sambalpur

*AISSE – CBSE, Science (PCM) (Percentage - 90%)*

May 2023

*Sambalpur, Odisha*

### Delhi Public School, Rourkela

*AISSE – CBSE (Percentage - 96%)*

May 2021

*Rourkela, Odisha*

## Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Database Management Systems

## Work Experience

### Rourkela Steel Plant

*Vocational Trainee*

May 2025 – June 2025

*Certificate*

- Designed and implemented a battery-powered ESP32-S3-based SoftAP module that monitors and transmits temperature and humidity data over Wi-Fi and Ethernet for Electrical Control Rooms at RSP, ensuring real-time environmental monitoring during power outages.

### GRID-INDIA

*Summer Intern*

June 2024 – July 2024

*Certificate*

- Developed a program to generate detailed map infographics by processing power plant coordinates, cost per unit, and capacity, enabling clear visualization of energy distribution.
- Conducted performance analysis of Quadratic vs Linear Programming in **Price-Based Economic Dispatch (PBED)** systems; found QP slightly more efficient, but not significantly better to warrant replacing existing LP models.

## Projects

### Om tours

*Python, HuggingFace, Smolagents, APIs*

March 2025

*Website*

- Developed a full-stack agentic AI system using Smolagents, FastAPI, and React to create personalized travel itineraries through multistep decision-making, covering budget, transport, and schedule, with an interactive frontend for visualization.

### Animegen

*Python, NLTK, PyTorch, Tkinter, VectorDB*

February 2025

*GitHub*

- Built an AI tool that converts stories into anime-style visuals by segmenting text into scenes using NLP and Pinecone, then generating images via the TogetherAI API in a Tkinter GUI (30–45s/story, 5–10s/image).

## Achievements

- **LeetCode** July 2024  
Secured a global rank of **1306** out of **36,768** participants in Leetcode Weekly Contest 408, showcasing proficiency in DSA and the ability to perform effectively under time pressure. Profile — Standings
- **Codechef: Two star** April 2024  
Achieved a peak rating of **1528** on CodeChef, earning the title of two-star coder, with experience competing in **35+** contests, showcasing strong algorithmic and programming skills. Profile
- **Hacktoberfest** Oct 2023  
Contributed 6 pull requests, 4 of which were accepted and merged into open-source repositories, showcasing collaboration skills. Treenation — Badges — Certificate

## Technical Skills

- **Languages:** Python, HTML, CSS, JavaScript, SQL(Structured Query Language), C++
- **Developer Tools:** VS Code, Jupyter Notebook, Google Colab, Spyder, Postman
- **Libraries:** Numpy, Pandas, Matplotlib, PyTorch, Web Scraping (BeautifulSoup)

## Certifications

### Artificial Intelligence and Robotics

*IIIT, Allahabad*

June 2025 – July 2025

*Certificate*

- Underwent a 6-week training program on AI and Robotics at IIIT Allahabad, gaining practical exposure to machine learning, computer vision, and autonomous robotic systems.