

# DHRUTABRATA BISWAL

DOB: 29 Nov 2005, Jajpur, Odisha

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LinkedIn

GitHub

LeetCode

## Education

### National Institute of Technology, Rourkela

Bachelor of Technology in Biotechnology (CGPA - 8.18)

Aug. 2024 – Aug. 2028

Rourkela, Odisha

### Gurukul public School, Odisha

Higher Secondary Education (PCMB)(Percentage: 86.6%)

2023

Odisha, India

### Odisha Adarsha Vidyalaya, jamdhar

Secondary Education (Percentage: 89%)

2021

Jamadhar, Odisha

## Relevant Coursework

- Machine Learning
- Deep Learning (RNN, LSTM)
- Agentic AI
- Database Management Systems
- Data Structures
- Transformer Architecture

## Work Experience

### AI/ML Intern | NirveonX Omnicare Pvt. Ltd.

May 2025 – July 2025

Remote

Certificate

- Developed and trained Pet Disease and NIH Chest X-ray datasets using CNN model architecture.
- Designed and implemented a healthcare chatbot for domain-specific intelligent responses.

## Projects

### California House Price Prediction | Python, Scikit-Learn, Pandas, XGBoost

May 2025

- Built an end-to-end regression pipeline on the California Housing dataset, achieving **89% prediction accuracy** and **R<sup>2</sup> score of 0.89** using **XGBoost**.
- Performed data preprocessing, feature scaling, and hyperparameter tuning; evaluated performance using **RMSE**.

### AI Chatbot Agents Platform | Python, Streamlit, LangGraph, LangChain, Groq/OpenAI APIs

Aug 2025

- Designed and deployed an **agentic AI platform** enabling users to create and interact with **multi-agent chatbots** using LangGraph and LangChain.
- Integrated **multiple LLM providers** (Groq, OpenAI) with dynamic model selection, web search tools, and real-time API-based query execution.

## Achievements/Certifications

### Data Science

May 2025

Certificate

Completed a certified Data Science course by NIT Rourkela.

### Ultimate RAG Bootcamp (LangChain, LangGraph, Vector DB)

Dec 2025

Certificate

Completed a 29.5-hour hands-on GenAI bootcamp on RAG systems.

### Competitive Programming

May 2025

Certificate

LeetCode: **1600+** rating, **250+** problems solved; Codeforces: **100+** problems solved, max rating **1059**.

## Technical Skills

- **Languages:** C++, Python, HTML/CSS, JavaScript
- **Frameworks & Libraries:** React.js, TensorFlow, LangChain, LangGraph, FastAPI
- **GenAI & AI/ML:** MCP (Model Context Protocol), Agentic AI, RNN, LSTM, Encoder–Decoder, Transformer
- **Databases:** MySQL
- **Developer Tools:** VS Code, Git, GitHub, Jupyter Notebook, Google Colab
- **Core Competencies:** Machine Learning, Deep Learning, Data Structures & Algorithms (C++), Full-Stack Fundamentals

## Leadership / Extracurricular

### Algorithm Programming Society, NITR

Mar 2025 – Present

Technical Member

NIT Rourkela

- Collaborating on solving advanced algorithmic problems, participating in contests, and mentoring juniors in DSA.