



ANIMESH KUMAR BISWAS

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Education

National Institute of Technology, Rourkela

Bachelor of Technology in Computer Science and Engineering (CGPA - 7.91)

August 2023 – Present

Rourkela, Odisha

Mother's Public School, Bhubaneswar

AISCCE – CBSE, Science (PCM) (Percentage - 93.6%)

May 2023

Bhubaneswar, Odisha

Mother's Public School, Bhubaneswar

AISSE – CBSE (Percentage - 95.4%)

May 2021

Bhubaneswar, Odisha

Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Design and Analysis of Algorithms
- Database Management
- Machine Learning
- Probability & Statistics

Work Experience

NIT Rourkela

Machine Learning Research Intern

May 2025 – Present

Rourkela, Odisha

- Conducting time series classification by transforming multivariate time series data comprising **30 datasets** into image representations using custom visualization techniques.
- Utilized **Vision Transformers (ViT)**, originally designed for image classification, to analyze images generated from time series data. Employed transfer learning by fine-tuning pre-trained ViT models (trained on **ImageNet**) on custom time series image datasets, reducing training time by **20%**.

NALCO

Vocational Trainee

May 2024 – June 2024

Angul, Odisha

- Collaborated with cross-functional teams to develop a user-friendly web solution for Indian Railways, streamlining payment calculations and automating real-time monitoring of power generation and equipment performance, leading to reduced processing time, improved efficiency, and cost savings.

Projects

Emotion Detection System for Student Learning Analytics

Python, PyTorch, OpenCV, Hugging Face

May 2025 - June 2025

GitHub

- Developed and deployed a real-time emotion detection system using Alpiyildo/vit-Facial-Expression-Recognition Vision Transformer to classify student emotions (Boredom, Confusion, Frustration, Engagement) from video and audio data, finetuned on a student behaviour dataset with **7000+** images
- Achieved **98% train accuracy** and **92% validation accuracy**, integrating the solution into a user-facing application for feedback and enhanced learning analytics.

Resume Analyzer

Python, Flask, HTML, CSS, JavaScript, SpaCy, NLP

June 2025

GitHub

- Developed an AI-powered Resume Analyzer that leverages NLP (SpaCy) and machine learning to extract skills, experiences, and match them to job descriptions, providing a relevance score for each application. Processed **100** resumes in under **5 minutes** using **LLaMA API** with async batch pipeline."
- Designed and implemented a fully responsive web interface using HTML, CSS, and JavaScript, with a Flask backend to handle resume uploads, processing, and real-time results display, reducing resume screening time by **60%**.

Achievements / Certifications

Kaggle Computer Vision Certification – May 2025

Certificate

Kaggle Deep Learning Certification – May 2025

Certificate

Technical Skills

- **Languages:** C, C++, Python, MATLAB
- **Developer Tools:** VS Code, GitHub
- **Technologies/Frameworks:** Tensorflow, PyTorch, Flask, FastAPI, OpenCV

Extracurricular Activities

Fest Coordinator – NITRUTSAV and Innovision, NIT Rourkela

Guest Lecture Team and Accomodation Team Coordinator

SAC, NIT Rourkela

- * Successfully invited and coordinated with **10+ distinguished guests**, ensuring personalized hospitality and smooth communication during high-profile college events.