

SOURAV BISWAS

Barrackpore, Kolkata, West Bengal - 700122, India

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Education

National Institute of Technology, Rourkela

Master of Technology in Computer Science and Engineering

University Institute of Technology, Burdwan

Bachelor of Engineering in Computer Science and Engineering

St. Augustine's Day School, Barrackpore

Higher Secondary (ISC)

St. Augustine's Day School, Barrackpore

Secondary (ICSE)

Aug, 2024 – Present

Rourkela, Odisha

Aug, 2020 – July, 2024

Burdwan, West Bengal

June, 2018 – May, 2020

Barrackpore, West Bengal

Aug, 2004 – May, 2018

Barrackpore, West Bengal

Relevant Coursework

- Applied Deep Learning
- Machine Learning
- Data Structures
- Applied Data Science
- Object Oriented Programming
- Quantum Computing
- Natural Language Processing
- Software Engineering
- Database Management System

Experience

Promact Infotech Pvt. Ltd

Generative AI Intern

January 2024 – April 2024

Vadodara, Gujarat

- Built Langchain-based Hotel AI Agent with ChromaDB, reducing query time by 34% and improving user experience.
- Created an Intelligent Document Finder with FastAPI and OpenAI LLMs, boosting retrieval accuracy by 42% and cutting API latency by 25%.

Projects

Human Activity Recognition System | Python, Tensorflow, Transformers, Open3D

May 2025

- Curated a human action dataset (walking, sitting, running, etc.) and preprocessed 2D images and 3D point clouds using denoising, normalization, augmentation, and voxelization. Built a 2D+3D CNN with cross-adaptive attention, trained with Adam, dropout, and learning rate decay, achieving 98.15% accuracy with real-time performance on GPU and Jetson Orin Nano.

JurisSum | Python, Tensorflow, Langchain, LlamaIndex, Huggingface, ChromaDB

July 2024

- Built a RAG-based tool to summarize and query legal judgments, and modelled an ANN/CNN architecture using word2vec and GloVe embeddings to classify parties from case facts, achieving 98.09% accuracy with a 1D-CNN and word2vec.

DivyaPay – A Payment App for Differently-Abled Users | Android, Kotlin, Firebase

Sep 2022

- Engineered a smartphone payment app in Kotlin (Android Studio) tailored for users with disabilities, with specialized interfaces and enhanced accessibility for secure, seamless use.

Publications

Biswas, S. & Gupta, S. (Dec 2022): *Fathoming the Relevance of Multi-Armed Bandit Problem in Online Advertisement Recommendation.* 2nd International Artemis Congress on Life, Engineering, and Applied Sciences.

Biswas, S., Das, S. K., & Gupta, S. (Oct 2022): *DivyaPay: Bridging the Digital Divide.* PREPARE@u® — FOSET Conferences.

Technical Skills

Programming Languages: Python, Java, C, Dart

Tools & Frameworks: TensorFlow, Keras, PyTorch, Flutter, Langchain, LlamaIndex, FastAPI

Databases: PostgreSQL, MongoDB, SQL

Backend: FastAPI, Flask, Postman, Swagger UI

Version Control: Git, GitHub

Leadership / Extracurricular

Machine Learning Lead *The Code Bird Club, UIT Burdwan*

June 2022 – August 2023

Outstanding Paper Presenter *West Bengal State Science & Technology Congress*

2023

2nd Runner Up *FOSET Academic Meet*

2022

CSI InApp Finalist *CSI InApp*

2022