# Samajit Nandi

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## EDUCATION

**GURU NANAK INSTITUTE OF TECHNOLOGY (GPA: 8.9)** Kolkata, IN
*Bachelor of Technology in Information Technology* *Aug. 2023 – May 2027*

**SUDHIR MEMORIAL INSTITUTE** Kolkata, IN
*High and Senior High School* *Mar. 2020 – May 2023*

## EXPERIENCE

**Undergraduate Research** Jun. 2024 – Aug. 2024
*GNIT* *Kolkata, IN*

- Engineered an automated detection system for kidney stones and tumors using a **CNN-XGBoost** ensemble; implemented advanced preprocessing with **Contrast Limited Adaptive Histogram Equalization (CLAHE)**, which boosted image clarity and feature visibility by **55%**
- Built a **TensorFlow/Keras** CNN model for kidney stone analysis, reaching **95% validation accuracy** by leveraging Google Colab for accelerated training.
- Led a cross-functional team of 5 developers using Agile methodologies, ensuring seamless collaboration and timely project delivery.

## PROJECTS

**CFNotifyBot** | *Python, FastAPI, Telegram, Google Calendar, Redis* | *(GITHUB)* Sep. 2025 – Oct 2025

- Automated contest notifications by polling Codeforces API, filtering results based on user preferences (e.g., Div 2).
- Built FastAPI scheduling bot with Google Calendar/OAuth integration, reducing manual scheduling time by 100% and sync errors by 60%.
- Achieved sub-millisecond data access and non-blocking I/O by combining Python's asyncio with Redis caching.
- Incorporated Google OAuth 2.0 to securely retrieve user data and facilitate instant, Single-click contest scheduling on personal calendar 100% feasible

**StreamSense** | *Python, FastAPI, Streamlit, YouTube API* | *(GITHUB)* Oct. 2025 – Present

- Engineered analytics engine using FastAPI/Asyncio, processing **1,000+ msgs/min** with **sub-50ms latency**.
- Processed live streams using RoBERTa/BERT to classify sentiment/toxicity with >**90% accuracy**.
- Developed live Streamlit dashboard visualizing trends via dynamic charts/word clouds with a **5-second refresh rate**.
- Reduced disk I/O by **95%** by implementing asynchronous message queuing and batch-writing every **5 seconds**.

## TECHNICAL SKILLS

**Languages**: Java, Python, C, SQL, JavaScript, R
**Frameworks**: Streamlit, Uvicorn, Hugging Face Transformers, Kaggle, Asyncio, FastAPI, TensorFlow, PyTorch, OpenCV **Developer Tools**: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, IntelliJ Idea, Jupyter Notebook, Google Colab
**Libraries**: Pandas, NumPy, Matplotlib, Sklearn, Pydantic

## ACHIEVEMENTS

**Competitive Programming**: **310+ Leetcode** Questions , rating: 1440 https://leetcode.com/u/samajitnandi/

**Python programming** : **NPTEL** 60+%

**Programming in Java** : **NPTEL** Silver + Elite

**Machine Learning and Deep Learning** : **Google Crash Course**