

MOSAM SANJAY BISWAS

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Career Objective

Aspiring software developer with a keen interest in programming, AI, and software development. Skilled in Python, problem-solving, and collaborative project work. Looking to contribute to innovative tech solutions while continuously learning and growing.

Education

Ramrao Adik Institute of Technology, D. Y. Patil Deemed to be University

B.Tech in Computer Engineering (Major: Artificial Intelligence and Data science), CGPA: 5.8

July 2022 – Present

Navi Mumbai, India

Narayana Junior Collage Kalyan(HSE)

12th Grade, Percentage: 60.83%

August 2020 – May 2022

Mumbai, India

Omkar International School (ICSE)

10th Grade, Percentage: 88.20%

June 2010 – March 2020

Mumbai, India

Projects

PixelForge, Techstack(*Python, PyTorch, CNNs, GANs*)

December 2025

- Built a medical image classification pipeline on the **C-NMC Leukemia dataset**, achieving **84% accuracy, 0.90 ROC-AUC**, and **95% recall** for Leukemia detection.
- Designed a custom **GAN with spectral normalization and hinge loss** to generate synthetic cell images for privacy-preserving data augmentation.
- Augmented the training dataset with GAN-generated images to improve **model robustness and generalization** under limited medical data.

MindFirst, Techstack(*Python, Next JS, Flask, Prisma, NextAuth, Tailwindcss*)

April 2025

- Developed a mental health detection platform used by over **100+ students** to identify potential disorders through chatbot and psychometric analysis with **95% accuracy**.
- Integrated NextAuth for secure user flow and personalized mental health reports, **reducing user drop-off by 30%**.
- Enhanced front-end experience for smoother navigation and improved mental health support access.

Sim Sim, Techstack(*Python, PySide6*)

May 2024

- Built a desktop-based AI assistant with GUI for daily automation tasks such as web search, reminders, and app launches.
- Leveraged PySide6 to design a **seamless GUI mimicking a real-time conversational experience**.
- **Achieved 70% faster task execution** compared to manual input by integrating voice commands and real-time conversational GUI.

Committee Connect, Techstack(*Android Studio, XML, JavaScript*)

December 2023

- Created a mobile app to streamline workflows for **8+ college committees, managing 50+ members** with real-time task and meeting tracking.
- **Reduced meeting scheduling conflicts by 40%** and improved member accountability through digital attendance logs.
- Enabled real-time participation tracking and streamlined coordination.

Research & Publications

- Comparative Analysis of Psychometric Data for Assessing Mental Health Testing Needs Using Machine Learning Models

Presented at the **2nd International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIHII 2025)**.

Technical Skills & Certifications

Languages: Python, Java, C, C++, HTML/CSS, JavaScript

GDSC Rait Android Compose Camp

AWS: AWS Academy Graduate: Machine Learning

EDX: Generative AI

CSI Rait: Industrial Approach to Java

RAIT ACM: HackToberFest

Frameworks: TensorFlow, Flask, React, Next, Latex

Tools: Git, SQL, PowerBI

Technologies: Deep Learning, AI, Machine Learning

Leadership

Photo Circle RAIT

July 2024 – July 2025

Technical Head

Navi Mumbai, India

- Led the **Technical Operation** of the club, including managing photography equipment and organizing events.
- Orchestrated 3 on-campus workshops attracting **75+ students**, 4 photography-focused "photo walks" averaging 20 attendees, and 2 inter-college competitions increasing club participation by **60%**.
- Contributed to club growth and visibility through media handling and planning.

Hobbies

Cinephile, photography, gaming