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 **July 2022 − Present**
B.Tech in Computer Engineering (Major: Artificial Intelligence and Data science), CGPA: 7.5 *Navi Mumbai, India*

Narayana Junior Collage Kalyan(HSE) **August 2020 − May 2022**
12th Grade, Percentage: 60.83% *Mumbai, India*

Omkar International School (ICSE) **June 2010 − March 2020**
10th Grade, Percentage: 88.20% *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 (ICAIIHI 2025)**.

Technical Skills & Certifications

Languages: Python, Java, C, C++, HTML/CSS, JavaScript
Frameworks: TensorFlow, Flask, React, Next, Latex
Tools: Git, SQL, PowerBI
Technologies: Deep Learning, AI, Machine Learning

GDSC Rait Android Compose Camp
AWS: AWS Academy Graduate: Machine Learning
EDX: Generative AI
CSI Rait: Industrial Approach to Java
RAIT ACM: HackToberFest

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