

INDRANIL BAIN

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</> not-indro.github.io

📍 Kolkata, West Bengal, India

EDUCATION

B.Tech, Computer Science and Technology
Indian Institute of Engineering Science & Technology, Shibpur
📅 December 2020 – June 2024 📍 Howrah , West Bengal
CGPA : 7.83/10.00 (73%)

PROJECTS

pdfSAGE - An Intelligent Document Companion
📅 June 2024 - July 2024 [Access Link](#) 🔗
Technology Used: Next.js, Tailwind CSS, OpenAI **Personal Project**
• Engineered a Next.js application integrating the OpenAI API for real-time PDF analysis, achieving 95% accuracy in content summarization.

HMER Model - Decoding Math Expressions
📅 January 2024 - May 2024 [Access Link](#) 🔗
Technology Used: Python, ViT, GPT-2 **Group Project**
• Developed an encoder-decoder model (ViT-GPT-2), achieving 88% accuracy in expression recognition and sequence generation.

CAPM - Capital Asset Pricing Model
📅 June 2023 - July 2023 [Access Link](#) 🔗
Technology Used: Python, Streamlit, Pandas **Personal Project**
• Designed a tool for portfolio analysis and risk assessment, Implemented CAPM algorithms, reducing manual calculation time by 75%.

EXPERIENCE

Data Engineer Trainee
i3 Digital Health
📅 Sept - Present 📍 Remote [Credential](#) 🔗
• Automated extraction of drug, cancer, and gene data from ClinicalTrials API using Hugging Face and SciSpacy, reducing human intervention by 85% and significantly saving time.
• Developed an automated system to scrape FDA website, including layered pages, to download 170+ cancer drug label PDFs, saving 3 hours of manual effort daily.

Summer Project Intern
IIST Shibpur || Prof. Abhik Mukherjee
📅 May - July 2023 📍 Onsite [Credential](#) 🔗
• Spearheaded GRE platform development, boosting user engagement by 40% and reducing onboarding time by 50% through UI enhancements.
• Designed and deployed personalized learning algorithms using collaborative filtering, enhancing student performance by 25%.

Research Project Intern
IIT Kharagpur || Prof. Debdoot Sheet
📅 July - Oct 2022 📍 Remote [Credential](#) 🔗
• Led front-end development for a medical imaging web app, optimizing "Skin Curate" disease detection to reduce false positives by 30%.
• Researched and applied Federated Learning, increasing model accuracy by 85% while ensuring data privacy.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++
- **Web Development:** HTML, CSS, Tailwind CSS, React.js, Next.js
- **Data Science & ML:** Pandas, NumPy, Matplotlib, TensorFlow, PyTorch
- **AI & APIs:** OpenAI API, Hugging Face
- **DevOps & Cloud:** Git, Docker, AWS, Jenkins
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Operating Systems:** Unix, Linux, Windows

PERSONAL SKILLS

- Strengths**
- Strong motivational and leadership skills.
 - Effective individual and team collaborator.
 - Positive attitude and adaptable mindset.
- Areas for Growth**
- Detail-oriented approach.
 - Continuously improving assertiveness and prioritization.

ACHIEVEMENTS

- **JEE (Main):** Secured top 7% rank nationwide
- **CodeChef:** Achieved 3-star coder status with a rating of 1603

ADDITIONAL PURSUITS

- **ASCE:** Assistant Treasurer (2023), Event Secretary (2024)
- **REBECA:** Publication Co-Lead (2023), Cultural Secretary (2024)
- **Badminton:** Represented university in inter-college badminton
- **Football:** Served as center-forward on the University Football Team, contributing to multiple tournament victories

LANGUAGES

English
Bengali
Hindi

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