INDRANIL BAIN

Recent Graduate, Class of 2024

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EDUCATION

Computer Science and Technology (B.Tech)

Indian Institute of Engineering Science & Technology, Shibpur

📅 December 2020 – June 2024   ⚲ Howrah , West Bengal

CGPA : 7.8/10.0 (73%)

PROJECTS

pdfSAGE - An Intelligent Document Companion

📅 June 2024 - July 2024   Access Link ↗

Technology Used: Next.js, Tailwind CSS, OpenAI   **Personal Project**

App enabling PDF uploads and document-centric discussions, using OpenAI API for context-aware responses to summarize documents, explain concepts, and find key information.

HMER Model - Decoding Math Expressions

📅 January 2024 - May 2024   Access Link ↗

Technology Used: Python, VIT, GPT-2   **Group Project**

Encoder-decoder model for offline handwritten math expression recognition, using VIT for semantic-invariant features and GPT-2 for handling diverse writing styles and missing temporal data.

Capital Asset Pricing Model

📅 June 2023 - July 2023   Access Link ↗

Technology Used: Python, Streamlit, Pandas   **Personal Project**

CAPM-based portfolio analysis for risk assessment, returns projection, strategy optimization, and informed decision-making in portfolio management.

EXPERIENCE

Summer Project Intern

IIEST Shibpur || Prof. Abhik Mukherjee

📅 May - July 2023   ⚲ Onsite   Credential ↗

- Designed interface for user engagement; developed tools for study plans and resource recommendations
- Optimized learning experiences using advanced techniques and personalization engines

Project Intern

IIT Kharagpur || Prof. Debdoot Sheet

📅 July - Oct 2022   ⚲ Remote   Credential ↗

- Led front-end/UI development for Android app; conducted Federated Learning Research
- Enhanced accuracy of "Skin Curate" disease detection app

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, JAVA
- **Database Management:** MySQL, PostgreSQL
- **Other Skills:** Figma, HTML, CSS, JavaScript, React, Next.js, Flutter, MS Office
- **Developer Tools:** VS Code, Git, Github, Jupyter Notebook, Docker, Google Colab, Zed
- **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 All India Rank 25625. A total of 4 lakhs+ students took the exam.
- **CodeChef:** Rating - 1603, 3 STAR coder.

ADDITIONAL PURSUITS

- **Athletics:** Club Level badminton (50+ tournaments); Varsity football Team center-forward
- **ASCE:** Assistant Treasurer (2023), Event Secretary (2024)
- **REBECA:** Publication Co-Lead (2023), Cultural Secretary (2024)

LANGUAGES

English
Bengali
Hindi