INDRANIL BAIN

Kolkata, West Bengal, India

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EDUCATION

Indian Institute of Engineering Science & Technology, Shibpur Howrah, India
B.Tech, Computer Science & Technology; CGPA: 7.83/10 *Dec. 2020 – July 2024*

EXPERIENCE

EvenFlow AI Northfield, IL, USA (Remote)
Data Analyst *Jan. 2025 – Current*
- **Data Management & Integrity:** Adeptly handled data from diverse sources, cleaning and validating millions of records to ensure data accuracy and reliability, which improved decision-making efficiency by 20%.
- **AI Analytics Platform:** Developed a internal application to process multiple input datasets, enabling dynamic table joins, data normalization, and insights via o4-mini model. Integrated interactive chat for analytics and visualizations, improving data-driven decision making efficiency by 40%.

i3 Digital Health Bangalore, India
Data Engineer Trainee *Sep. 2024 – Dec. 2024*
- **Data Extraction Automation:** Streamlined drug, cancer, and gene data extraction from the ClinicalTrials API using Hugging Face and SciSpacy, cutting human intervention by 85% and saving significant time.
- **Scraping System:** 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.

IIEST, Shibpur Howrah, India
Summer Project Intern *May 2023 – July 2023*
- **Platform Optimization & Personalized Learning:** Led GRE platform development, increasing engagement by 40% and cutting onboarding time by 50% via UI improvements. Designed collaborative filtering-based learning algorithms, improving student performance by 25%.

IIT Kharagpur Kharagpur, India
Research Project Intern *July 2022 – Oct. 2022*
- **Front-End Development & Federated Learning:** Led front-end development of a medical imaging web app, optimizing the Skin-Curate feature to reduce false positives by 30%, and implemented Federated Learning, boosting model accuracy by 85% while ensuring strict data privacy protocols.

PROJECTS

pdfsAGE - Intelligent Document Companion (GitHub): AI app with OpenAI API for 95% accurate PDF analysis
- **Technology Used:** Next.js, Tailwind CSS, OpenAI SDK, Langchain, Neon DB, Pinecone DB, S3, Drizzle ORM

Support Agent Chatbot - (GitHub): AI-powered chat-bot for precise CDP queries using documentation.
- **Technology Used:** Playwright, BeautifulSoup4, Groq API, Python, Streamlit

HMER Model - Decoding Math Expressions (GitHub): Handwritten Mathematical Expression Recognition Model
- **Technology Used:** ViT Transformer (Encoder), GPT2 (Decoder), Python (Jupyter Notebook), TensorFlow

TECHNICAL SKILLS

Programming Languages: Python, SQL, C++
Frameworks: TensorFlow, PyTorch, LangChain, Hugging Face, spaCy, Keras, Apache Spark, Flask, FastAPI
Developer Tools: Git, OpenAI SDK, Docker, AWS, DBeaver, Microsoft Excel, Power BI, VS Code, Jira
Databases: PostgreSQL, MySQL, MongoDB, Pinecone DB, NeonDB, CockroachDB

ADDITIONAL PURSUITS

REVELATION (Departmental Fest): Assistant Treasurer (2023), Event Secretary (2024)
REBECA (Cultural Fest): Publication Co-Lead (2023), Cultural Secretary (2024)
SPORTS: Represented our university team in inter-college badminton and football tournaments.