Aviroop Mitra

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PROFESSIONAL EXPERIENCE

Neurologic-ai | Machine Learning Intern

Nov, 2023 - Jul, 2025

Intelligent Claim Orchestration in Guideware | Skan AI

May - Jun, 2025

Automated claim creation and assignment in Guidewire ClaimCenter with a vision-to-reasoning pipeline that pairs GPT-4 Vision/Text (async Python, prompt-engineered with token-cost guardrails) and a hierarchical scorer operating on a 30-event window. Delivered 80% confidence (+23 pts over benchmark) and halved inference latency.

Document Intelligence Platform | Carelon Health

Mar - May, 2025

Streamlit-based interface drives a PDF-to-image flow where a layout-transformer isolates semantic zones; cropped sections are passed to async GPT-4 Vision (backed by Mistral OCR and Python imaging) and rendered with Pandas. The generalized architecture now ingests diverse healthcare documents and keeps end-to-end latency under 3s without sacrificing accuracy.

PwC India | Advisory Intern

Jun - Jul, 2024

Full-Stack Ticket Platform

Jun - Jul, 2024

Angular + Spring Boot + MongoDB stack with JWT-secured role-based access. Provides a real-time ticket dashboard, template creation/search, appraisal & query threads, and an animated UI—while keeping CRUD latency under 50 ms. An API Gateway and client-side service discovery route traffic to horizontally duplicated ticket and auth services for effortless scale-out.

EDUCATION

Jadavpur University | Bachelor of Engineering - BE in Computer Science Dec, and Engineering | GPA: 8.15 (upto 7th semester)

Dec, 2021 - Jul, 2025

Burdwan Municipal High School | Higher Secondary in Science | GPA: O

Jul, 2019 - Mar, 2021

Burdwan Town School | Secondary | GPA: AA

Jan, 2011 - Mar, 2019

PROJECTS

Distributed P2P Network

Feb - May, 2025

• Built a simulation of P2P network using FastAPI, Streamlit and Distributed Computing knowledge where peers can upload and view files (similar to Bit torrent)

Compiler Design Project

Feb - Apr, 2024

- Implemented a bottom up parser in C language for a simple C like language with for loops, variable
- · declarations and functions
- Designed an LR(1) automaton to generate parsing tables and handle grammar rules for a C-like language.
- Integrated a lexical analyzer and symbol table to tokenize input, manage scope, and validate identifiers and types during parsing.

LinkedIn Puzzle Solver

Aug - Aug, 2024

- Developed a Streamlit-based web application to solve the Queens game, a logic puzzle from LinkedIn News.
- Created a user-friendly interface with custom styling using HTML and CSS for enhanced visual appeal.
- Integrated image processing using the Python PIL library to guide users on valid and invalid image uploads.

SKILLS

Programming Languages: C++, Java, JavaScript

Machine Learning & Data Science: Machine Learning, Deep Learning, Recommender Systems, Scikit-

Learn, Transformers, NumPy, Jupyter

Web & API Frameworks: FastAPI, Spring Boot, Node.js, Angular, Streamlit

Databases & ORM: MySQL, MongoDB, SQL, SQLAlchemy

Testing & Automation: pytest

DevOps & Cloud: Git, Cloud Computing **APIs & Integrations:** OpenAI API, REST APIs

AWARDS & ACHIEVEMENTS

GATE CS, 2025 | AIR 65, 99.96 percentile

Feb, 2025

Senior Scholar | Jagadish Bose National Science Talent Search | 98.98 percentile Junior Scholar | Jagadish Bose National Science Talent Search | 98.5 percentile

Jul, 2022 Mar, 2020