

# Aviroop Mitra

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## PROFESSIONAL EXPERIENCE

**Neurologic-ai** | Machine Learning Intern | *Nov, 2023 - Present*

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 3 s 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 and Engineering | *Dec, 2021 - Jul, 2025*

GPA: 8.15 ( upto 7th semester )

**Burdwan Municipal High School** | Higher Secondary in Science | *Jul, 2019 - Mar, 2021*

GPA: O

**Burdwan Town School** | Secondary | *Jan, 2011 - Mar, 2019*

GPA: AA

## 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++, JavaScript, Java

**Machine Learning & Data Science:** Machine Learning, Deep Learning, Recommender Systems, Transformers, Scikit-Learn, NumPy

**Databases & Storage:** MySQL, MongoDB, SQL

**Web Frameworks & APIs:** OpenAI API, REST APIs, FastAPI, Spring Boot, Angular, Node.js

**Cloud & DevOps:** Cloud Computing, Git

**Computer Science Fundamentals:** Compilers, Data Structures, Algorithms

**AWARDS & ACHIEVEMENTS**

**GATE CS, 2025** | *Feb, 2025*

AIR 65, 99.96 percentile

**Jagadish Bose National Science Talent Search, Senior Scholar** | *Jul, 2022*

98.98 percentile

**Jagadish Bose National Science Talent Search, Junior Scholar** | *Mar, 2020*

98.5 percentile