

Ayush Raj

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EDUCATION

Birla Institute of Technology

Integrated MS - Mathematics and Computing, GPA-7.68

Mesra, Jharkhand

Aug. 2018 – June 2023

Jawahar Vdiya Mandir, Shyamali

High School in PCM

Ranchi, Jharkhand

May 2016 – May 2017

EXPERIENCE

ADROSONIC — *Research & Innovation Engineer*

Dec. 2022 – Present

- Led the design and deployment of a GenAI Experiments Portal (React.js, Flask, Azure), enabling organization-wide access to LLM PoCs including document parsing, summarization, triage, and SQL-based querying.
- Built RAG-based data extraction pipeline using LangChain, OpenAI/Azure LLMs, FAISS, and Azure AI Search; improved extraction accuracy by 30%, reduced cost by 20%, and cut processing time by 50%.
- Developed natural language to SQL system (MySQL, Azure SQL, OpenAI), achieving 95% query accuracy with prompt engineering and interactive visualizations.
- Delivered auto-triage and document summarization systems using LLMs, Azure Translator, and Power Automate; boosted underwriting speed by 75% and reduced document turnaround time by 80%.
- Led LLM benchmarking across OpenAI, Azure, and Gemini to guide enterprise adoption; compared context windows, hallucination rates, latency, and accuracy.
- Designed multi-agent AI system using OpenAI Agents SDK (Python) with task-specific agents (parsing, triage, quote binding, classification).
- Built experimental Agentic AI framework using MCP and A2A protocols integrating Gemini LLM and external tools (e.g., Google Maps API, currency converter), with a React-based frontend for inter-agent communication.

PROJECTS

BAT-BOT — *JavaScript, Python, Gemini*

- A website where users can engage in conversations with a chat-bot themed with the personality of Batman.
- The backend is built on Python and utilizes the Gemini API for natural language processing. Frontend is built using Vanilla JS.
- Backend is deployed on Render, with frontend hosted on Netlify. For all features [GitHub](#)

TECHNICAL SKILLS

Programming Languages: Python, C/C++, JavaScript, SQL, GO

Frameworks/Libraries: React.JS, Node.JS, OpenAI SDK, Gemini SDK, LangChain

Tools: Git/GitHub, Linux, Postman, Docker, Azure DevOps

Course works: Data Structures, Algorithm, DBMS, OOPS, Operating System

ACCOMPLISHMENTS

- Google KickStart Round D Global Rank: 4888
- Facebook Hacker Cup Round 1 Global Rank: 6019
- **Debutant of the Year, 2023** – Awarded by ADROSONIC for outstanding performance and contributions within the first year of joining.

LEADERSHIP / CO-CURRICULAR ACTIVITIES

- **Member of Finance Team** in Tech Fest PANTEHON 2019
- **Winner - B'Plan at E'Summit'19**, collaborated with a team of four members, designed and proposed a business plan for a product in college's business fest.

HOBBIES / INTERESTS

- Playing sports (football, cricket), Solving Sudoku
- Deep interest in Movies and Comics