

Rishabh Pawani

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SUMMARY

Motivated AI and Data Science student and practicing AI Engineer with hands-on experience building production-grade AI agents, voice-based systems, and Retrieval-Augmented Generation (RAG) pipelines. Currently an AI Engineer Intern at AskGalore, where I develop intelligent automation solutions for financial workflows, conversational voicebots, and diverse RAG architectures. A level-headed and resilient problem-solver and team collaborator, adept at managing deadlines. Eager to apply technical skills and an innovative mindset to challenging roles, bringing enthusiasm and a commitment to continuous learning.

SKILLS

- Proficient in C++, C, and Python
- Skilled in Machine Learning and Deep Learning
- Proficient in Data Analysis and Data Science workflows
- Experience in Voice AI, STT, and TTS integration
- Experience with PostgreSQL, MySQL, and MongoDB
- Skilled in Feature Engineering and Data Visualization
- Experience with LangChain and LangGraph
- Skilled in RAG, AI Agents, and Generative AI applications
- Proficient in FastAPI, Flask, and REST API development
- Familiar with Docker, Linux, Git, and GitHub

WORK HISTORY

AI Engineer Intern — AskGalore

MAR 2026 – Current

- Designed and deployed AI agent workflows for financial automation, enabling end-to-end processing of financial tasks with minimal human intervention.
- Built and maintained multiple RAG systems (Naive, Advanced, and Agentic RAG) to power intelligent document Q&A; and knowledge retrieval across client use-cases.
- Developed and optimised conversational voicebots integrating STT, TTS, and intent classification for real-time, natural-language banking and financial support.
- Collaborated with cross-functional teams to scope requirements, prototype MVPs, and iterate on AI-powered solutions within tight delivery timelines.

Volunteer, Training and Placement Department

OCT 2024 – Current

- Served as a point of contact, clearly conveying placement drive schedules and process updates to students and visiting corporate recruiters.
- Coordinated the setup and logistics of placement venues, ensuring pre-placement talk halls, computer labs, and interview rooms were fully operational and professionally prepared for recruitment activities.
- Contributed to the planning and execution of recruitment drives, helping to manage student registration, documentation, and on-site coordination to ensure a smooth and efficient process.

EDUCATION

Bachelor of Technology in Computer Science Engineering (AI & DS) Sagar Institute of Science and Technology (SISTec), Bhopal	06/2027	7.89
Intermediate Certificate in Science St Paul's CO-ED School, Bhopal, Madhya Pradesh	04/2023	73.40 %
Secondary School Certificate in Science St Paul's CO-ED School, Bhopal, Madhya Pradesh	04/2021	84.00 %

PROJECTS

- **Adapt It – Daily Aptitude Quiz Agent**

Role: Full-Stack Developer & AI Integration Lead

Designed and developed an end-to-end automated quiz platform that orchestrates daily aptitude assessments without manual intervention. Built a multi-agent backend using Flask and PostgreSQL, with an AI-powered question selection pipeline leveraging NVIDIA NIM and BeautifulSoup4 to scrape, filter, and intelligently curate MCQs from live sources. Engineered server-side anti-cheat enforcement (tab-switch detection, copy-paste blocking, blur-event logging) and automated the full delivery lifecycle from question selection and personalized email dispatch via Resend, to real-time scoring and result synchronization to Google Sheets triggered entirely through GitHub Actions cron scheduling.

- **Exam Buddy – Smart Topic Extraction & PYQ Analysis System**

Role: Project Leader & Backend Architect

Designed and developed the backend architecture for Exam Buddy, an AI-powered platform that automates exam preparation and resource management. Leveraged FastAPI and PostgreSQL to build the core infrastructure and engineered advanced NLP pipelines using Groq and Sentence Transformers to execute semantic question clustering, "Hot Topic" extraction, and dynamic practice paper generation from unstructured PDF data.

- **FloatChat – Scientific Data Assistant**

Role: Data Engineer & Cloud Developer

Developed FloatChat, an intelligent assistant for oceanographic research and data exploration. Responsible for data organization, database design (Argo ocean dataset), and data visualization pipelines. Managed cloud deployment and hosting, ensuring efficient storage, scalability, and seamless integration with the backend and AI modules.

Key Skills: Data Engineering, SQL, Cloud Hosting, Data Visualization, LangChain, RAG Systems

- **Fincove – Voice Banking Assistant (MVP)**

Role: AI Developer & Voice Interaction Architect

Developed in collaboration with IBOTIX Technologies Built Fincove, an MVP voicebot for banking support, capable of handling real-time conversations with users. Integrated Speech-to-Text (STT), Text-to-Speech (TTS), and intent classification for contextual dialogue. Implemented Edge TTS and WebKit SpeechRecognition, connected to a FastAPI backend, to deliver smooth and natural user interactions.

Key Skills: Voice AI, FastAPI, STT/TTS Integration, Intent Classification, Conversational Systems