

RAKSHITH G

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EDUCATION

Global Academy of Technology

Bachelor of Engineering in Electronics and Communication Engineering

Sep. 2021 – July 2025

Current CGPA: 7.12

Mangalore Independent PU College

Physics, Chemistry, Mathematics, and Computer Science

Jun 2020 – Jul 2021

Percentage: 75

EXPERIENCE

Artificial Intelligence Engineer Intern -

Oct 2024 – Jan 2025

Excentrix Ventures Pvt. Ltd.

- Designed and implemented ML models to enhance predictive analytics and automate workflows.
- Leveraged LangChain to build and optimize LLM-based models and Generative AI for advanced AI solutions.
- Engineered a conversational AI solution with a database for dynamic query responses, enhancing user engagement.
- Implemented NLP algorithms to improve the AI system's understanding of user queries, enabling personalized and context-aware responses.
- Conducted comprehensive testing to ensure model accuracy and reliability, improving system performance and reducing errors.

PROJECTS

- SMART RECRUITMENT PLATFORM - WORKWISE

Tools : HTML, CSS, TypeScript, React (Vite) , Node.js, Express, Gemini API, MongoDB, Docker , FireBase

- Built an end-to-end recruitment system using React (TypeScript) for the frontend and Node.js with Express for the backend, automating resume analysis, interview scheduling, and candidate shortlisting.
- Implemented Gemini models to generate custom interview questions based on job descriptions and analyze candidate resumes using advanced NLP techniques, enhancing the accuracy of job matching.
- Dockerized the platform's services (frontend, backend, AI models) and deployed on GCP.

- PERSONAL FINANCE ANALYZER TOOL

Tools : HTML, CSS, TypeScript, React (Vite) , Node.js, MongoDB, Render , FastAPI

- Designed and Built a web-based tool that helps users manage their personal finances with ease. It allows real-time tracking of income and expenses with smart categorization
- Integrated interactive visualizations like bar, pie and line charts to display clear insights on spending, savings, and budgeting. Users can easily monitor monthly and yearly financial trends.
- Added Features like budget vs actual comparisons, goal setting, and downloadable reports. The Platform is secure, responsive, and User-friendly, making financial management accessible to everyone.

- BOOK REVIEW PLATFORM

Tools : HTML, CSS, JavaScript, React (Vite) , Node.js, Express.js, MongoDB, Render , RESTful API

- Built a Full stack web application where users can discover, review, and rate books across various genres. The platform supports user registration, profile management, and interactive browsing of books.
- Implemented features like search , filtering, and pagination to enhance book discovery. Integrated a structured view system with rating and commenting functionalities for better community engagement.
- Designed a responsive and intuitive UI and React Router and centralized state management. Developed a RESTful backend with Robust API endpoints , secure data handling, and role – based access (e.g., admin book uploads).

- QUESTION BANK GENERATOR TOOL USING BLOOM'S TAXONOMY

Tools: Streamlit, Python, OpenCV, (PyMuPDF , LangChain, GoogleGenerativeAI), Bloom's Taxonomy

- Created a web-based application that extracts text from PDF documents and generates educational questions aligned with Bloom's Taxonomy using the Google Gemini API.
- Designed prompts to generate questions across Bloom's cognitive levels—knowledge, comprehension, application, analysis, synthesis, and evaluation—ensuring comprehensive educational coverage.
- Utilized PyMuPDF for efficient PDF parsing and LangChain to enhance output precision, ensuring accurate text extraction and generation.

- AI-DRIVEN ACADEMIC DATA ASSISTANT

Tools: Python, streamlit, FastAPI, Guardrails, SQL, FAISS, LangChain, Hugging Face Transformers

- Built an AI-powered system using FastAPI to efficiently query and manage school-related data, enabling seamless access to student records, performance metrics, and administrative insights.
- Implemented Guardrails AI for robust input validation and response control, while utilizing FAISS Vector DB for efficient, similarity-based search and retrieval of large datasets.
- Integrated an SQL database for structured data storage and retrieval, ensuring high-speed access to school records while maintaining data integrity and performance.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, TypeScript, HTML, CSS

Web Dev Tools: NodeJS, ExpressJS, ReactJS, Basic Next.js, Flask, MERN Stack, FastAPI, Django, FireBase

Databases: MySQL, MongoDB

Cloud/Deployment: Docker, Vercel, Render, Mongo Atlas

Tools & Technologies: Git, GitHub, Jira

AI & Machine Learning: Gemini, OpenAI, Langchain, Langgraph, Ollama, Llama 3.2, OpenCV, RAG, Vector DB, Guardrail AI, OpenCV,

Operating Systems: Windows, Unix

Soft Skills: Problem Solving, Critical thinking, Self-learning, Communication skills, project ownership, troubleshooting, interpersonal, presentation skills, cross-functional, ethics, quick-learner

CERTIFICATION

The Complete 2024 Web Development Bootcamp – Udemy

Data Science using Python - IIT Madras

Machine Learning Course - IBM

Artificial Intelligence - Infosys

Python Foundation Certificate - Infosys

Git and GitHub – Microsoft

24 Hours Personality Development & communication Skill - Bizotic Edtech

ACADEMIC ACHIEVEMENT

- Vice-Chairperson at IEEE ComSoc Student Chapter at our college.
- IEEE R10 ACEI Entrepreneurship Ambassador 2025 for Bangalore Section.
- I conducted a workshop on Arduino, Git and GitHub Workshop under the TechConnect club
- Presented a conference paper In International Conference (ICATECS-2024) on heart failure detection utilizing explainable AI
- Presented a conference paper In International Conference (ICETCES-2025) on Revolutionizing Talent Acquisition: Designing an AI-Powered HR Recruitment Platform
- Exhibit Coordinator for Param Innovation at BIEC TIE Global Summit 2024, explaining scientific concepts and innovations.
- Assisted in organizing and managing an inter-college NEXUS hackathon.
- Volunteered for Youth for Seva NGO and PARSEC for 30+ Hrs.