

ROHITH REDDY G K

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SKILLS

Languages:	Java, Python, JavaScript, SQL, NoSQL
Frameworks & Libraries:	React.js, Tailwind CSS, Flask, Django, Chart.js, Recharts
Databases:	Oracle/SQL, MongoDB, PostgreSQL
Tools & Platforms:	Git, GitHub, Power BI, Tableau, Docker, Version Control (Git/GitHub)
Core Competencies:	DSA, OOPS, REST APIs, ML Model Training & Deployment, CI/CD, Cloud Deployment

PROJECTS

[ADMET-X: AI-Driven Platform for In-silico ADMET Prediction](#) | [GitHub](#)

Tech Stack: React.js, Tailwind CSS, Flask, RDKit, RESTful APIs

- Developed a full-stack AI platform for in-silico **ADMET** prediction using **Flask REST APIs** and **React.js** frontend, improving drug candidate screening efficiency by **45%**.
- Processed **31** drug datasets (**~100K** compounds) and generated molecular descriptors using **RDKit** to enhance data quality.
- Trained and validated **Random Forest** and **XGBoost** models achieving **90%+ accuracy** and **85%+ R²** score.
- Deployed on **cloud environment** enabling real-time predictions with seamless UI integration.

[AI Powered Dashboard & Data Chatbot](#) | [GitHub](#)

Tech Stack: Next.js, TailwindCSS, Recharts, Express.js, PostgreSQL, Groq LLM, Vanna AI

- Built an AI-enabled financial **analytics dashboard** with **natural language query** support for real-time insights.
- Integrated LLM-based query understanding (**Vanna + Groq**) to dynamically generate and execute SQL queries via Express APIs.
- Designed interactive **Recharts visualizations**, real-time metrics, and **NLP** summarization features **reducing manual analysis** time by **40%**.
- Implemented secure backend APIs ensuring 100% response reliability for large dataset operations.

[Global Cost of Living Analyzer](#) | [GitHub](#)

Tech Stack: React.js, Chart.js, Django, REST API

- Created a **global data visualization** platform comparing living costs across **360+ cities & 110+ countries**.
- Developed **6+** interactive charts using **Chart.js** to improve **decision-making** speed by **25%**.
- Automated data collection via **web scraping API (BeautifulSoup + Django)**, achieving **98% accuracy** in updates.

INTERNSHIP EXPERIENCE

AI Intern — [Edunet Foundation](#) | Jan 2025 – Jun 2025

- Engineered an **AI Medical Query Chatbot** using **NLP**, and **Transformers**, to deliver **95 % accurate** contextual medical responses.
- Architected a **Learning Style Prediction System** using **Random Forest Classifier** and deployed it via **Streamlit**, enhancing personalized study recommendations for users by **30 %**.
- Gained hands-on experience in **Azure ML** pipelines and end-to-end cloud model deployment.

Full Stack Developer Intern — [Prinston Smart Engineers](#) | Jul 2024 – Aug 2024

- Built responsive web applications using **React.js**, **JavaScript**, **HTML**, and **CSS**, improving UI load performance by **25 %**.
- Designed and integrated RESTful backend workflows for real-time data flow between frontend and **MongoDB**.

EDUCATION

B.E., Information Science & Engineering — AMC Engineering College, Bengaluru

CGPA: 9.13 | **Dec 2022 - Expected Graduation: August 2026**

CERTIFICATIONS

NPTEL: [Data Structures & Algorithms \(Java\)](#), and [Programming in Java](#).

IJCRT Publication: [IoT-Based Automatic Medicine Reminder](#) (Research Paper)

Microsoft Certified: [Generative AI](#) – LinkedIn Learning