

# ROHITH REDDY G K

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## Professional Summary

Full Stack Developer skilled in **React.js, JavaScript, MongoDB, Java, and Python**, with hands-on experience in **scalable web applications, cloud deployment, and AI/ML integration**. Strong foundation in **DSA, OOP, and problem-solving**, with proven ability to deliver projects across **frontend and data visualization**.

## Education

AMC Engineering College – Bengaluru

Dec 2022 - Present

Bachelors of Engineering, Information Science and Engineering | **CGPA: 9.13**

## Projects

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

- Developed a full-stack drug discovery platform to predict **Pharmacokinetic & Pharmacodynamic** behavior using **SMILES / molecular files / structure** inputs with **ML-based ADMET** models.
- Curated and processed **31** high-quality ADMET datasets (**~1,00,000+ SMILES**), leveraging **RDKit** to compute molecular descriptors and drug-likeness features.
- Achieved **>90% accuracy** across **classification** tasks and **>85% R<sup>2</sup>** scores across **regression** tasks using **Random Forest** and **XGBoost** models.

**Tech Stack:** Python, Flask, RDKit, Vite + React, Tailwind CSS

### Cost of Living Analyzer – Global Insights with Interactive Data Visualization (Team Project) | [GitHub](#)

- Built a **global cost prediction platform** covering 360+ cities and 110+ countries.
- Developed **responsive frontend components** in React.js with **interactive Chart.js** dashboards.
- Integrated backend APIs (Django, Python, BeautifulSoup) for **real-time data flow**.

**Tech Stack:** React.js, Django, Python, BeautifulSoup, Chart.js, CSS

### Personal Portfolio Website | [GitHub](#)

- Designed a **responsive single-page portfolio** to showcase projects, skills, and achievements.
- Integrated **EmailJS** contact form and **Framer Motion + Lottie** animations for enhanced UX.
- Deployed on **Netlify**, ensuring accessibility for recruiters.

**Tech Stack:** React.js, Tailwind CSS, Framer Motion, EmailJS, Netlify

### AI-Based Learning Style Predictor | [GitHub](#)

- Developed **Random Forest ML model** (**~85% accuracy**) to classify learners as Visual, Auditory, or Kinesthetic.
- Built a **quiz-based system with personalized study tips**, increasing engagement by **~30%**.
- Deployed via **Streamlit** for real-time predictions.

**Tech Stack:** Python, scikit-learn, Streamlit

## Internships

### Edunet Foundation | AI Intern

Jan 2025 – Jun 2025

- Developed an AI-Based Learning Style Predictor using **Random Forest & Streamlit** and an AI medical query chatbot using Python, Transformers, and NLP techniques & gained hands-on experience in Azure ML.

### Princeton Smart Engineers | Full Stack Development Intern

Jul 2024 – Aug 2024

- Built web applications using HTML, CSS, JavaScript, React.js, and MongoDB.
- Gained practical exposure across frontend and backend development.

## Skills

**Programming:** Java, Python, JavaScript, SQL | **Frontend:** React.js, HTML5, CSS3, Tailwind CSS, Chart.js | **Backend & Databases:** Node.js (basic), MongoDB, SQL | **Tools & Deployment:** Git/GitHub, Netlify, Streamlit Cloud | **Data Visualization:** Tableau, Power BI | **Concepts:** DSA, OOP, Problem Solving.

## Certifications

**NPTEL:** DSA & Java | **Microsoft:** Generative AI | **IJCRT Journal:** IoT-Based Medicine Reminder | **AINCAT** – Rank 46,721/3.6L+