

ROHITH REDDY BETHI

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Software Engineer

Computer Science & Data Science graduate with expertise in Functional Programming concepts, Backend Systems, SDK Development, and AI-powered Data Science. Skilled in designing reliable, scalable, and self-healing frameworks with strong foundations in algorithms, APIs, and distributed computing. Passionate about building frictionless user experiences, intelligent payment-like operations, and resilient infrastructure with 99.999% availability standards.

EDUCATION

Bachelor of Technology in Computer Science & Engineering (Data Science)

Anurag University • Hyderabad • GPA: 7.23 • 10/2021 - 07/2025

SKILLS

Programming Languages: C, Java, Python, R, SQL

Backend & APIs: Business Logic Integration, Flask, .NET Full Stack, REST APIs, Servlets

Frontend / SDK: CSS3, HTML5, JavaScript, React Markup, SDK Development, UI/UX

AI & Data Science: Anomaly Detection, Deep Learning, Intelligent Traffic Routing, Machine Learning, NumPy, Pandas, PyTorch, Self-Healing Systems, TensorFlow

Data Visualization: Matplotlib, Power BI, Seaborn, Tableau

Infrastructure & Reliability: Distributed Computing Concepts, Firewalls, MongoDB, MySQL, Networking (TCP/IP, Reliability Engineering, Routing, Switching, VPN)

Tools: Automation Tools, Git, Low-code/No-code development exposure, Version Control

PROJECTS

Sign Language to Text System • 03/2025 - Present

- Designing a Python-based AI system with JavaScript frontend to translate sign language to text and voice.
- Implementing a two-stage deep learning pipeline for sign-to-text conversion using Vision Transformer and Transformer models.

DeepFake Detection System (Backend + Data Science) • 08/2024 - 03/2025

- Built scalable business logic with Flask APIs and PyTorch models to detect fake media across video, image, and audio.
- Implemented automatic anomaly detection with heatmap and spectrogram visualizations, ensuring self-healing, reliable operations.
- Designed modular APIs for seamless integration into external systems.

AI-Powered Medical Imaging Analysis (Data Science + Reliability) • 04/2024 - 07/2024

- Developed CNN-based diagnostic model achieving 93.5% accuracy while ensuring robustness under diverse input conditions.
- Contributed to automated preprocessing pipelines, improving system reliability and scalability in medical image classification.

WORK EXPERIENCE

CODTECH IT Solutions • Virtual • 05/2024 - 06/2024

Data Science Intern

- Built a predictive model achieving 85% accuracy on telecom churn datasets.
- Conducted exploratory analysis, anomaly detection, and visualization to derive insights from large-scale data.
- Improved business intelligence pipelines for automated decision-making.

CERTIFICATIONS

The Complete Data Structures and Algorithms Course in Python • 09/2024

Udemy

PCAP: Programming Essentials in Python

Cisco Networking Academy

JavaScript Essentials

Cisco Networking Academy

Digital Skills: Full-Stack Development (DOTNET)

Wipro TalentNext

CCNAv7: Introduction to Networks

Cisco Networking Academy

Mastering Generative AI and ChatGPT

GeeksforGeeks