

Gujjala Gnaneswara Rao

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Objective

Results-driven Software Engineer with expertise in software development, full-stack engineering, and DevOps practices. Passionate about building scalable, high-performance applications while leveraging Agile methodologies, CI/CD pipelines, and automation to optimize the software lifecycle. Seeking a role to contribute technical expertise in coding, debugging, testing, and performance optimization while collaborating with cross-functional teams to deliver customer-centric solutions.

Education

Centurion University of Technology and Management Vizianagaram	2021 - 2025
B.Tech in Computer Science and Engineering	CGPA: 7.6/10
Narayana Junior College Palasa	2019 - 2021
Intermediate in Maths, Physics and Chemistry	Percentage: 98
Z P High School Nivagam Srikakulam District	2019
Secondary School Education	CGPA: 10/10

Internship

YHills, Remote Aug 2023 - Sep 2023

Artificial Intelligence Intern

- Developed AI-powered classification models using Python, Scikit-learn, and XGBoost, achieving optimized performance and accuracy.
- Engineered scalable data pipelines for model training and inference, integrating automation techniques for streamlined workflow.
- Implemented CI/CD pipelines for deploying ML models into a production-like environment, ensuring continuous integration and testing.
- Collaborated with developers and data scientists to improve model explainability and integration into real-world applications.

Project Work

AI-Based Tool for Preliminary Diagnosis of Dermatological Manifestations:

- Designed and built a full-stack web application for automated skin disease detection, integrating Flask for backend API development and ReactJS for frontend visualization.
- Developed custom image classification models using CNNs (TensorFlow/Keras) and optimized inference speed for real-time predictions.
- Integrated DevOps practices by setting up Dockerized containers for scalable deployment on cloud platforms.

Number Puzzle Game:

- Developed an interactive Number Puzzle Game where players arrange numbers in sequence by sliding tiles within a grid. Implemented game mechanics such as grid initialization, tile movement validation, and puzzle-solving logic to ensure a smooth gaming experience. Added a timer feature to track completion time and a reset option for replayability.
- Java, Java Swing, AWT

Medical Health Care Chatbot:

- Developed an AI-powered chatbot leveraging NLP techniques (spaCy, NLTK) to provide real-time automated responses for healthcare queries. Designed microservices-based architecture for chatbot backend using Flask and REST APIs, ensuring scalability and modularity.
- Deployed chatbot using AWS Lambda & API Gateway, implementing serverless architecture for high availability and performance.
- Integrated automated unit testing (PyTest) and logging mechanisms to enhance error tracking and debugging.

Skills

Programming Languages: Python, Java, C++, JavaScript

Software Development: Full-Stack Development, REST APIs, .Net, NodeJS, Web Applications (ReactJS, Flask, Django)

DevOps & CI/CD: Docker, Jenkins, Kubernetes, AWS Lambda, GitHub Actions

Tools & Version Control: Git, GitHub, Jira, Postman, Swagger

Database & Cloud: SQL, PostgreSQL, MongoDB, Firebase, AWS, GCP

Certificates

- Artificial Intelligence on YHills
- Java Course for Placements on Codetantra
- Python Essentials 2 on Cisco Networking Academy
- Big Data - 301 on Infosys Springboard
- Introduction to AI and ML on Google Cloud Skill Boost

Extra Curricular Activities

- Participated in the Smart India Hackathon (SIH), contributing innovative solutions to real-world problems.
- Captained a cricket team to a tournament victory, showcasing leadership, strategic thinking, and effective team collaboration.