GOVINDA KRISHNA ARJANGI

B.Tech Computer Science
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GitHub Profile
LinkedIn Profile

Objective

Enthusiastic and detail-oriented developer seeking an entry level role to apply my problem solving skills, foundational programming knowledge, and passion for building efficient, user friendly applications. Eager to learn new technologies and contribute to a collaborative development team.

Education

- **VIT-AP University, Amaravati** *CGPA: 7.99/10.0*
  Bachelor of Technology in Computer Science and Engineering 2022 – 2026
  – **GATE 2026 (CS & IT): Qualified with an All India Rank (AIR) of 8074 out of 2.11 Lakh+ candidates.** Placed in the **Top 4%** nationwide with a score of 492.
- **Narayana Junior College** *Percentage: 84.9*
  Board of Intermediate Education, Andhra Pradesh 2020 – 2022
- **Narayana English Medium (E.M) School** *Percentage: 98.1*
  Board of Secondary School, Andhra Pradesh 2020

Internships

- **Microsoft (Implemented by Edunet Foundation, in collaboration with AICTE)**
  AI Azure Intern Remote
  – Successfully completed a 4-week internship focused on Artificial Intelligence using Microsoft Azure technologies.
  – Gained hands-on experience with AI tools and cloud-based solutions.
  – Participated in an industry-recognized program supporting technical skills development.
- **Teachnook**
  Intern Bengaluru
  – Collaborated on workflow management and project documentation with a cross-functional team.
  – Enhanced organization of project resources during sprints and meetings.
  – Developed a responsive rental website using HTML, CSS.

Projects

- **Vigilant Lens: UBA & Insider Threat Detection System** *April 2026*
  Python Project
  – Engineered a multi-modal behavioral analytics platform to detect malicious insider threats and monitor work integrity using high-frequency telemetry and deep learning.
  – Developed a real-time data collection agent in Python to capture behavioral biometrics, including Keystroke Dynamics (Dwell/Flight time) and Mouse Path Tortuosity, ensuring zero-trust identity verification.
  – Implemented a Dual-Model ML Architecture using an LSTM Autoencoder for temporal sequence anomalies and Isolation Forest for point-based behavioral deviations.
  – Designed a contextual Risk Scoring Engine mapped to the MITRE ATT&CK Framework, incorporating role-based multipliers, after-hours activity ratios, and exponential risk decay.
  – Built a high-performance cybersecurity dashboard using React 18 and FastAPI, featuring a real-time "Work Integrity Gauge," SHAP-based model explainability, and automated security alerts.

  Tools & **technologies:** Python, PyTorch, FastAPI, React 18, Tailwind CSS v4, Docker, SHAP
- **Litmus: Website Performance, Accessibility & SEO Auditor** *July 2026*
  Full-Stack Web App
  – Built a full-stack website auditing platform (Next.js 14, TypeScript) that drives a real headless browser via Playwright and Chromium to run performance, accessibility, and SEO checks on any URL, returning transparent weighted 0–100 scores with plain-English explanations.
  – Implemented a live CDP screencast preview and session-video recording that deep-links each failed check (layout shifts, JS errors) to the exact moment it occurred, with desktop and mobile emulation and WCAG-cited accessibility results.
  – Added score history and trends, before/after and competitor comparison, multi-page crawl, and shareable public report pages, backed by Supabase (Postgres, Auth, Row-Level Security); shipped with GitHub Actions CI, Vitest tests, and Docker.

Tools & **technologies:** Next.js 14, TypeScript, Playwright, Supabase, Tailwind CSS, Recharts, Docker

- **OpenPath: Open-Source Contribution Recommender** *June 2026*
  Full-Stack Web Platform
  - Engineered OpenPath, a full-stack platform that ingests GitHub repositories and issues, scores repository health and issue difficulty, and ranks the best-fit open-source issues for a developer's skill profile.
  - Designed a three-plane architecture: a NestJS and Prisma REST API, a Next.js and shadcn/ui web app, and asynchronous BullMQ workers that ingest from the GitHub REST/GraphQL APIs within the 5,000 requests/hour budget and precompute recommendations for fast reads.
  - Secured GitHub OAuth (Auth.js / NextAuth v5) using short-lived JWTs and AES-256-GCM encrypted access tokens, backed by PostgreSQL and Redis in a Dockerized npm-workspaces monorepo that also includes a Python/-FastAPI ML service.

Tools & **technologies:** Next.js, NestJS, TypeScript, Prisma, PostgreSQL, Redis, BullMQ, FastAPI, Docker

- **Real-Time Sign Language Detection Using Deep Learning Models** *April 2024*
  Python Project
  - Designed and implemented a real-time ASL gesture recognition system using TensorFlow/Keras and OpenCV, ensuring reliable and consistent model performance.
  - Created and validated a custom gesture dataset; implemented preprocessing, data quality checks, and systematic testing under varied lighting and background conditions.
  - Built a robust real-time pipeline with cvzone for hand tracking and gesture classification; optimized prediction latency (0.12s) and frame performance (15–20 FPS).
  - Conducted functional testing, validation metrics analysis (accuracy, loss, confusion matrix), and debugging to improve model accuracy and reduce misclassifications.
  - Delivered a production-ready prototype demonstrating strengths in model validation, test planning, automation workflows, and quality-focused ML development.

Tools & **technologies:** Python, TensorFlow, NumPy, LSTM, Keras

Technical Skills and Interests

Languages: Java, Python
Front-end Web Technologies: HTML, CSS, Python, JavaScript
Technical Stack: Python, Java, SQL Server, HTML, CSS
Interests: AI and Machine Learning concepts, Deep Learning using Neural Networks

Certifications

- **OCI Certified Generative AI Professional ,** Oracle University *Issued Jul 2025*
- **MongoDB Certified Associate Developer Java,** MongoDB Certification *Issued March 2026*
- **AI Azure Internship Certificate ,** Microsoft (Edunet Foundation AICTE) *Issued June 2025*
- **AWS Cloud Practitioner Essentials(link),** AWS Training and Certification *Issued Sept 2024*
- **GenAI and ChatGPT Course,** GeeksforGeeks *Issued June 2024*