

Lokesh Boddapu

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Education

Gayatri Vidya Parishad College of Engineering (Autonomous) Affil.: Andhra University

CGPA: 8.54

Bachelor of Technology - Computer Science and Engineering

October 2022 – April 2026

- **Specialisation:** Artificial Intelligence and Machine Learning
- **Relevant Coursework:** Machine Learning, Deep Learning, Database Management Systems, Data Structures and Algorithms, Object-Oriented Programming

Experience

Software Engineer Intern (Cloud)

AMTZ, Visakhapatnam

AITCare

Feb 2026 – May 2026

- Developed an automation workflow using AWS Lambda to generate daily and weekly AWS credit usage reports. Built an Amazon Bedrock AI agent to monitor developer workspace activity, managed model access for the team, and reduced daily LLM API costs by 55% by implementing prompt caching.
- Managed the company's AWS infrastructure, coordinating cloud operations with the team and leadership. Designed and developed a multi-account AWS architecture for Development, QA, and Production, and built CI/CD pipelines enabling a "Build Once, Deploy Everywhere" standard across different accounts and regions.
- Developed 15+ AWS CloudFormation stacks to provision and manage resources across networking, compute, storage, identity, databases, and content delivery. Proposed and implemented security and architecture improvements including AWS KMS-based end-to-end encryption, CloudFront content delivery, AWS WAF, and JWT-based ABAC authorization to align the platform with security, scalability, and compliance best practices.

Python Developer Intern

Remote

Infotact Solutions

May 2025 – July 2025

- Built an automated file organizer using Python's os and shutil modules.
- The tool is accessible via CLI and a Tkinter GUI, which previews the post-organisation structure before execution.
- Implemented comprehensive error handling and logging, achieving reliability in file operations.

Projects

ProfileEcho - AI Professional Profile Compatibility Analyzer | *React, Node.js, Express, MongoDB, Python, FAISS*

GitHub

- Built a data pipeline to extract user data from GitHub, LeetCode, Codeforces, CodeChef, and parsed resumes.
- Implemented an NLP engine to process both PDFs and Word documents using PyPDF2 and python-docx, then used spaCy to extract technical skills and experience.
- Generated 384-dimensional vector embeddings using FastEmbed (BAAI/bge-small-en-v1.5) and computed job-profile cosine similarity using FAISS with dynamic, role-based weighting.

ML Algorithm Comparison and Insight Tool | *Machine Learning, EDA, Flask*

GitHub

- Developed a software tool where users can upload their dataset for comprehensive exploratory data analysis (5+ analytics).
- Enabled code-free machine learning by integrating 5 classification and 5 regression algorithms, featuring problem type inference based on the selected target attribute.
- Added user controls to configure training size and cross-validation, empowering users to experiment with model performance.

Skills

Programming Languages: Python, Java, SQL, C/C++

AI Technologies: Machine Learning, Data Analysis, Natural Language Processing, Deep Learning

Frameworks/Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn

Cloud & DevOps: AWS, Git, CodeCommit, GitHub, CloudFormation, CI/CD

Certifications

Machine Learning - Pro Certification

TCS iON

TCS iON National Proficiency Test – Certificate ID: 26230110871

January 2026

Achievements and Leadership

National Semifinalist in Tata Imagination Challenge 2024

Tata Group

Advanced to the national semi-finals (top 2.3%) by excelling in aptitude and gamified situation handling rounds.

2024

Captain & Head Organiser, College Basketball

GVPCE(A)

Led first-time participating team to AU Inter-College semi-finals and organised intra-college tournaments for 100+ participants. 2023–2024