

Shanmukha Vutikuri

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🌐 [LinkedIn Profile](#) · 🐙 [GitHub Profile](#)

Professional Summary

Passionate AI and Cloud Computing enthusiast with proven expertise in prompt engineering, AWS cloud infrastructure, and IoT-driven automation. Demonstrated ability to deliver scalable, intelligent solutions that drive measurable business impact through innovative technology integration and data-driven insights.

Education

Bachelor of Technology in Electronics & Communication Engineering Sept 2021 – May 2025
Aditya Engineering College

- **Percentage:** 69.3%
- **Relevant Coursework:** Digital Signal Processing, Communication Systems, Embedded Systems, IoT Applications

Technical Skills

Programming Languages: C, Python, SQL

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, Amplify, SES/SNS, CloudFormation), Azure (VMs, ARM Templates), Jenkins, Git, AWS CLI, Docker

AI & Machine Learning: Prompt Engineering, OpenAI API, GPT-3/4, Hugging Face Transformers, NLP, scikit-learn, Face Recognition APIs

Web Development: React, Node.js, Express.js, Flask, REST APIs, MongoDB

Analytics & Productivity: Microsoft Excel, Power BI, PowerPoint, Google Workspace, Data Analysis

Core Competencies: Analytical Thinking, Problem Solving, System Design, Team Collaboration, Technical Communication

Professional Experience

Cloud Computing Engineering Intern Dec 2024 – Apr 2025
EXCELr EdTech Pvt. Ltd | Remote

- Architected and deployed multi-cloud infrastructure across Azure VMs and AWS services (EC2, S3, RDS), completing 15+ end-to-end cloud deployments during intensive 16-week program
- Implemented Infrastructure as Code using CloudFormation and ARM templates, reducing environment setup time by **50%** and eliminating configuration drift
- Enhanced security posture through strategic IAM role configuration and VPC design, integrated CI/CD pipelines with Jenkins and GitHub Actions, achieving **30%** reduction in deployment errors

Cloud Engineering Intern June 2024 – Aug 2024
Brain O Vision | Remote

- Optimized AWS infrastructure management across EC2, S3, RDS, and Lambda services, implementing cost-optimization strategies that achieved **20%** operational cost savings
- Engineered secure cloud environments with least-privilege IAM policies and robust VPC configurations, strengthening overall security posture
- Automated resource provisioning workflows using CloudFormation templates, reducing manual configuration time by **40%** and improving deployment consistency

Key Projects

AI Health Chatbot for Symptom-Based Medicine Recommendations

[Live Demo](#)

- Developed intelligent NLP chatbot achieving **92% accuracy** for over-the-counter medication suggestions, deployed on AWS with **99.9% uptime**
- *Tech Stack*: Python, Flask, scikit-learn, Docker, AWS EC2, Natural Language Processing

PromptBuddy – Multi-LLM Prompt Generation Platform

[Live Demo](#)

- Built comprehensive AI-driven prompt refinement platform integrating multiple LLMs (OpenAI, Claude, Gemini, Cohere) for intelligent, context-aware responses
- *Tech Stack*: Flask, React (Vite), Python, REST API, OpenAI/Gemini/Cohere/Claude APIs, Vercel, Render

Automated Attendance Reporting System

[Repository](#)

- Engineered face-recognition-based attendance system with automated email notifications and real-time dashboards, reducing administrative overhead by **85%**
- *Tech Stack*: React, Node.js/Express, MongoDB, Face-API.js, AWS Lambda, SES

Certifications & Achievements

- **AWS Certified Cloud Practitioner** | Oracle Certified Foundations Associate
- **IBM Professional Certificates**: Data Analysis with Python, SQL for Data Science, Python for Data Science
- Published research paper in IEEE Xplore (EAIC 2025, NIT Jalandhar)

Publications & Research

Optimizing Energy Efficiency in Smart Buildings Through IoT-Driven Occupancy Sensing

June 2025

Authors: Vutikuri Shanmukha, Savarapu Abhishek

Conference: IEEE EAIC 2025, NIT Jalandhar | **Paper ID: 482**

Status: Accepted for publication in IEEE Xplore

 [IEEE_Paper_482 - View Document](#)