Nimmala Prashanth

BCA

Cyber Security, Machine Learning & AI

👤 About

Innovative BCA developer skilled in Python/Flask, React & AI. Built Jarvis AI (state-level expo) with 95% voice accuracy, reducing tasks by 30%. Created EasyShop handling 100+ transactions at 99.9% uptime (Stripe/JWT). Passionate about secure AI solutions. Exploring LLM optimization.

🎓 Education

Chaitanya Deemed To Be University

BCA | 2023 - Present

Govt Junior College Karepalli

Class XII | 2016 | 77.5%

ZPS High School Gate Karepalli Singareni Mandal Khammam Dist

Class X | 2014 | 5

🏢 Work Experience

Chaitanya Deemed to Be University

Summer Tech Project | Aug 2024-Sep 2024

EasyShop E-Commerce Platform
Full-Stack Developer | Flask, React, SQLite, Stripe API
- Architected scalable e-commerce platform handling 100+concurrent users with Flask backend and React frontend

Enhanced security:
- Implemented JWT authentication to reducing unauthorized access by 45%
- Integrated PCI-compliant Stripe payments (100% secure transaction record)

Optimized performance:
- Achieved 40% faster page loads via Redis caching and SQL query optimization
- Maintained 99.9% uptime during peak traffic using load-balanced deployment

Jarvis AI Voice Assistant
AI Developer | Python, OpenAI, Speech Recognition
Developed state-level expo recognized AI assistant with:
- Context-aware NLP using OpenAI Gemini-1.5 (code generation/calendar automation)
- Hybrid voice interface (95% accuracy Google Speech + custom wake-word detection)

Delivered measurable impact:
- Automated 15+ tasks (email drafting, web searches, code debugging)
- Saved 10+ hours/month for pilot users (N=10) with 30% fewer false triggers

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Contact

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🔗 Linkedin

🔗 GitHub

⚒️ Technical Skills

- HTML/CSS
- Python
- React.js
- Node.js
- MongoDB
- JavaScript
- Deep Learning
- Express.js

⚒️ Soft Skills

- Communication
- Time Management
- Collaboration
- Leadership
- Teamwork
- Problem-Solving
- Adaptability

🏅 Certifications

- **Summer Tech Project**
  Sunstone Schools of Technology | November 2024

- **Fundamentals of Python Programming**
  Sunstone Ace Academy | March 2025

- Machine Learning
  Simplilearn |
  April 2025

📖 Projects

Jarvis AI Voice Assistant

Python | OpenAI Gemini-1.5 | Google Speech Recognition | State-Level Expo Project

- Developed a voice-controlled productivity assistant that automates 15+ repetitive tasks (app launching/code generation/web searches), reducing manual effort by 60% through:
- Context-aware NLP using OpenAI Gemini-1.5 with custom memory retention
- Hybrid speech recognition (Google API + CMU Sphinx) achieving 95% accuracy
- Custom wake-word detection system reducing false triggers by 30%
- Recognized at [State Name] Tech Expo 2024 (Top 15% selection) for innovative HCI implementation

Key Results:
- ✓ 25% faster task execution vs manual operation
- ✓ 90% user satisfaction in 10-user pilot deployment
- ✓ 40% faster voice command processing vs baseline models

EasyShop E-Commerce Platform

Flask | React | SQLite | Stripe API | JWT Authentication

- Designed and deployed a scalable full-stack e-commerce solution for university needs, featuring:
  - Flask backend with RESTful API architecture
  - React frontend with responsive product catalog
  - Role-based access control (Admin/Merchant/Customer tiers)
- Optimized performance to handle:
  - ✓ 100+ concurrent users during campus sale events
  - ✓ 99.9% system uptime through load-balanced deployment
  - ✓ 40ms average API response time at peak loads

🏆 Achievements

- Honored to be part of BrainWars 2025! This experience challenged my problem-solving, creativity, and teamwork skills, inspiring me to keep learning and innovating.