

# DUNNA SAI SAGAR

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## PROFESSIONAL SUMMARY

Associate Software Engineer with hands-on experience building production-ready applications using Python (FastAPI, Flask) and React with TypeScript. Strong foundation in REST APIs, authentication, and scalable systems. Experienced in AI-driven products, workflow automation, and cloud infrastructure with proven track record in revenue-generating platforms.

## EDUCATION

|   |                             |
|---|-----------------------------|
| <b>Bachelor of Technology in CSE (AI &amp; ML)</b><br>Malla Reddy University, Hyderabad | 2022 – Present   CGPA:8.89% |
| <b>Intermediate</b>   Narayana Junior College   | 2020 – 2022   83.2%         |
| <b>SSC</b>   J.M.J English Medium High School   | 2007 – 2020   GPA: 8.0/10.0 |

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript  
**Backend:** FastAPI, Flask, REST APIs, Authentication, API Design  
**Frontend:** React, TypeScript, Hooks, State Management  
**AI/ML:** Prompt Engineering, NLP, Resume Parsing, Conversational AI, CNN, Deep Learning  
**Database:** MySQL, PostgreSQL  
**Automation:** n8n, Webhooks, Twilio API, WhatsApp API, Telegram API  
**Cloud/DevOps:** AWS (EC2, S3, EBS), Terraform, Docker, CI/CD  
**Tools:** Git, Linux, Postman, VS Code, Streamlit

## PROJECTS

|   |                                    |
|---|------------------------------------|
| <b>Startup Business Platform – Revenue Generating</b><br>Live: <a href="https://moores.vercel.app">moores.vercel.app</a>  | <i>React, TypeScript</i>           |
| • Developed production platform serving 10+ customers with 100+ orders delivered, generating consistent revenue   |                                    |
| • Engineered comprehensive business rules and order workflows reducing processing time by 40%   |                                    |
| • Architected scalable React codebase with TypeScript achieving 99% uptime across 500+ user sessions  |                                    |
| <b>AI Mock Interview Platform</b><br>Live: <a href="https://ai-mock-interview-iota-wine.vercel.app">ai-mock-interview-iota-wine.vercel.app</a>                          | <i>FastAPI, React, TypeScript</i>  |
| • Created full-stack AI interview platform supporting voice and text interactions with 10+ active users   |                                    |
| • Integrated conversational AI logic generating 50+ adaptive follow-up questions per interview session  |                                    |
| • Developed FastAPI backend handling 200+ API requests daily with 250ms average response time   |                                    |
| <b>AI Resume-Based Interview Bot</b><br>Live: <a href="https://interviewbot-e9fzdrte4s86agcbdfv2uz.streamlit.app">interviewbot-e9fzdrte4s86agcbdfv2uz.streamlit.app</a> | <i>Python, Streamlit, NLP</i>      |
| • Designed AI interview bot extracting 15+ key data points from resumes with 90% accuracy using NLP techniques  |                                    |
| • Generated 30+ role-relevant technical and behavioral questions through advanced prompt engineering  |                                    |
| <b>AI Travel Planning Application</b><br>Live: <a href="https://travel-eight-sooty.vercel.app">travel-eight-sooty.vercel.app</a>  | <i>React, Location APIs</i>        |
| • Engineered location-aware app generating personalized itineraries for 10+ users using proximity algorithms  |                                    |
| • Optimized visit routing reducing travel time by 30% through intelligent scheduling of 8+ daily attractions  |                                    |
| <b>Skin Cancer Detection System</b><br>GitHub: <a href="https://github.com/saisagardunna/cancer_detection">github.com/saisagardunna/cancer_detection</a>                | <i>Python, CNN, FastAPI</i>        |
| • Trained deep learning CNN model on 8000+ medical images achieving 92% classification accuracy   |                                    |
| • Designed preprocessing pipelines processing images in under 2 seconds for real-time diagnosis   |                                    |
| • Deployed FastAPI service with modular architecture handling 50+ daily inference requests  |                                    |
| <b>Workflow Automation &amp; Cloud Infrastructure</b><br>• Automated workflows delivering 1000+ monthly messages across Twilio SMS, WhatsApp, and Telegram channels     | <i>n8n, AWS, Docker, Terraform</i> |
| • Streamlined Excel data updates reducing manual processing time by 75% through webhook integration   |                                    |
| • Provisioned cloud infrastructure managing 5+ AWS EC2 instances and 10+ Docker containers using Terraform  |                                    |
| <b>AI Recipe Generator</b><br>Live: <a href="https://recipe-generator2.vercel.app">recipe-generator2.vercel.app</a>   | <i>React, AI</i>                   |
| • Launched AI-powered recipe application serving 10+ users with 1.5 second average response time  |                                    |
| • Delivered structured cooking instructions with 95% user satisfaction through prompt-driven logic  |                                    |

## CERTIFICATIONS

AWS Certified | Google AI/ML Internship | Deloitte Job Simulation | NPTEL | Python (U. Michigan) | Python (U. Penn)

## LANGUAGES

English (Professional), Telugu (Native), Hindi (Fluent)