

# BHUVAN GIRISH DESAI

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## TECHNICAL SKILLS

- **AI / ML:** PyTorch, Hugging Face, Transformers
- **Agentic AI Frameworks:** Agents SDK, LangGraph, LangChain, CrewAI, AutoGen, MCP
- **Python Libraries:** Pandas, NumPy, Matplotlib, Seaborn, OpenCV, BeautifulSoup
- **Backend Frameworks:** FastAPI, Flask, SQLAlchemy
- **Databases & more:** PostgreSQL, MySQL, SQLite, Firebase, Redis, Qdrant
- **Web Technologies:** React.js, Node.js, Tailwind CSS
- **Infrastructure & Tooling:** Docker, Git, GitHub, Power BI
- **Languages:** Python, SQL, JavaScript, TypeScript, HTML, CSS, C++

## EDUCATION

- **Bachelor of Science in Applied AI & Data Science** 1st year : 8.5 CGPA **2024 - 2028**  
Indian Institute of Technology, Jodhpur
- **Class 12th - Science Stream - KSEAB** Grade: 82.38% **2022 - 2024**  
Vedantha PU College, Bangalore

## PROJECTS

- **Pipe Quotation Creation & Management Software** Python, Flask-HTML-CSS-JS, MySQL, Pandas, ReportLab  
• End-to-end LAN-deployed quotation management system built with Flask and PM2, featuring secure role-based access using Flask-Login.  
• Real-time product search and cart-based quotation building with GST-compliant smart pricing, configurable discount schemes, admin controls, and robust input validation.  
• Professional branded PDF quotation generation with complete quotation tracking and integration with a local MySQL server for reliable, real-time data handling.
- **Digital Laxman Rekha, Built by me and my team at grand finale of SIH 2025** Python, React, SQL, Docker  
My Contribution to the project  
• Architected and implemented a secure, scalable backend using FastAPI with modular REST APIs for incident reporting, analysis, and case management.  
• Designed role-based access control, Secure JWT authentication, encrypted data storage, and secure API workflows to handle sensitive defence-related data.  
• Built automated incident analysis pipelines including risk scoring, Url analysis, and prioritization logic, backed by PostgreSQL and SQLAlchemy ORM.

## CERTIFICATIONS

- **AI Engineer Agentic Track: The Complete Agent & MCP Course** Agents SDK, CrewAI, LangGraph, AutoGen and MCP  
• Built multiple AI agents including a personal knowledge chatbot, an SDR agent for automated sales outreach, and a deep-research multi-agent system.  
• Designed autonomous agents for stock selection, market analysis, and decision support using CrewAI and tool-based workflows.  
• Learnt the Langchain ecosystem in detailed and created multiple projects around it.
- **AI Engineer Core Track: LLM Engineering, RAG, QLoRA, Agents** HuggingFace, LangChain, and Gradio  
• Built diverse LLM applications including intelligent web-scraping agents, multimodal customer support systems, and audio-to-insights pipelines using both open-source models, Designed RAG-based knowledge workers and predictive pipelines.  
• Evaluated and optimized LLM performance by comparing RAG, fine-tuning, and agentic workflows across leading frontier and open-source models.
- **Advanced Large Language Model Agents MOOC, Spring 2025**  
• Completed an advanced course on LLM-based autonomous agents, covering reasoning, planning, tool use, and agentic workflows for complex problem-solving.  
• Gained hands-on understanding of inference-time reasoning, search and planning, function calling, and code generation/verification using large language models.
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate**  
• Earned Oracle Cloud Infrastructure (OCI) 2025 Certified AI Foundations Associate, validating foundational knowledge of AI, machine learning, deep learning, generative AI, and large language models.
- **Data Visualisation: Empowering Business with Effective Insights**  
• Developed practical skills in selecting appropriate visualization techniques, creating effective charts, and communicating insights to support business decision-making.