

# Dhanshree Patel

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## SUMMARY

Results-driven AI/ML professional with expertise in Generative AI, NLP, LLMs, and Intelligent Automation. Skilled in designing and deploying scalable AI solutions, intelligent chatbots, and voice-enabled applications. Adept at leveraging cutting-edge technologies to drive innovation, streamline processes, and enhance user experiences in fast-paced environments.

## EDUCATION

- M.Tech** in Computer Engineering | Dharmsinh Desai University, Nadiad | CPI: 7.85 (Sem - III) **2023 – Present**
- B.Tech** in Computer Engineering | Charusat, Changa | CPI: 8.69 **2019 – 2023**

## WORK EXPERIENCE

**GenAI - NovusCode Pvt. Ltd.** **June 2024 - Present**

### AI developer Intern

- Gained hands-on experience in AI/ML, Generative AI, LLMs, and RAG implementation.
- Worked extensively on MathEducationBot, NLP-related tasks, and a voice cloning system.
- Developed AI-powered solutions for task automation, intelligent query processing, and multi-turn conversational AI.

**eInfochips - An arrow company** **Jan 2023 - July 2023**

### Intelligent Automation Intern

- Gained experience in Intelligent Automation using Python, Selenium, and PyTest for test automation.
- Worked on an R&D project - JetMax Robot Hand, applying computer vision techniques for object recognition and motion control.

## PROJECTS

### Math Education Bot

- Developed an AI-powered educational chatbot to assist students and parents with math-related queries for grades 1–12.
- Enabled multimodal query support (text, image, and URL-based inputs) and contextual memory for enhanced user interactions.
- Built using Streamlit, FastAPI, and LangChain, integrated with GPT models to deliver accurate, grade-specific solutions.
- Monitored performance using LangSmith for optimizing success rates and latency.

### AI-Powered PDF Generator

- Designed and hosted a PDF generation tool on Google Cloud Platform using Streamlit for seamless document creation and sharing.

### AI Calling Demo

- Developed a dynamic voice interaction system using Retell AI, demonstrating AI-powered user-agent communication.

### Task Management System

- Developed an NLP-driven task management application with features including task parsing, intent detection, and context management using OpenAI GPT and Groq Llama.
- Integrated speech-to-text functionality leveraging the SpeechRecognition library and PyAudio for seamless voice-enabled task creation.

## SKILLS

- Programming Languages:** Python (Advanced), SQL, C++
- AI/ML Frameworks:** TensorFlow, PyTorch, OpenCV
- Generative AI & Large Language Models (LLMs):** OpenAI GPT, Groq Llama, Hugging Face, LLM Fine-tuning, Prompt Engineering, RAG (Retrieval-Augmented Generation) Integration
- Natural Language Processing (NLP):** Task Parsing, Intent Detection, Context Management
- Cloud & Deployment:** Google Cloud Platform (GCP), Streamlit, FastAPI
- Web Development:** HTML, CSS, JavaScript (Basic)
- Conversational AI & Knowledge Integration:** LangChain, LangSmith, LangGraph
- Other Skills:** OCR (Optical Character Recognition) Integration, Speech-to-Text & Text-to-Speech Processing, Data Preprocessing, Chatbot Development, Intelligent Automation, Selenium
- Soft Skills:** Communication, Team Collaboration, Problem-Solving, Critical Thinking, Time Management, Continuous Learning