PRACHI RAJESH DAVE

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EDUCATION

University of Southern California   Los Angeles
Master of Science in Computer Science   January 2025-Present
GPA: -

SVKM's Mukesh Patel School of Technology Management   Mumbai
Bachelor of Technology   January 2022-December 2025
GPA:3.74/4

SVKM's Mukesh Patel School of Technology Management   Mumbai
Diploma in Computer Science Engineering   January 2019-December 2021
GPA:3.70/4

EXPERIENCE

Company Name: Nexasprint Technologies Pvt. Ltd   Mumbai
AI Engineer | GenAI Department | Intern   June 2024-October 2024

- Constructed and Deployed AI-Driven Workflow Management Platform: Utilized the PERN stack (PostgreSQL, Express.js, React, Node.js) to create a comprehensive application for AI agent conception and workflow management
- Customized AI Solutions for Industry Applications: Deployed pre-built templates for AI agents and workflows to accelerate customer onboarding in BFSI, optimize route planning in Logistics, and automate fraud detection workflows in FinTech

GODJN Solutions   Mumbai
Python Developer | Insured Tech Department | Intern   January 2022-June 2022

- Automated web apps to extract FIR data on road accidents from official state websites in India, streamlining access for insurance claim processing
- Automated Android applications using Android Studio and Appium, developing scripts to streamline file downloads, process Excel inputs, and ensure reliability through robust error handling

ACADEMIC PROJECTS

OMNI.ai   Mumbai
AI-Powered Website Generator | Team of 4   November 2024-March 2025

- React, Node.js, Vite, WebContainer (WebAssembly), GPT, Claude, Groq, Ollama
- Built a full-stack application that converts natural language prompts into live websites using multiple LLMs, with real-time in-browser execution via WebAssembly-powered WebContainer, eliminating server dependencies

AgentMons - AI Agent Monitoring Platform   Mumbai
Nexasprint technologies, AI Engineer   June 2024-September 2024

- PERN Stack (PostgreSQL, Express.js, React, Node.js)
- Developed and deployed an AI-driven workflow management platform for agent conception and monitoring. Features include real-time monitoring, multi-agent integration, and comprehensive troubleshooting capabilities

Industry-Specific Conversational AI Platform   Mumbai
Nexasprint technologies, AI Engineer   August 2024-August 2024

- Rasa, Dialogflow, OpenAI API, Microsoft Bot Framework
- Created advanced conversational AI bots for logistics, FMCG, banking, finance, automotive, legal, and insurance industries. Automated customer responses and delivered seamless real-time support across multiple sectors

Child Lock System Using GANs   Mumbai
Computer Vision & Real-time Processing   May 2024-July 2024

- GANs, OpenCV, Dlib, Real-time Processing
- Devised a real-time parental control system restricts access to inappropriate content. Features automatic device locking based on facial recognition when a child is detected via live camera feed

Autonomous Lane Detection System   Mumbai
Computer Vision & Self-Driving Systems   June 2024-June 2024

- OpenCV, Auto-Encoder Models, ROS

- Designed a self-driving vehicle system that detects lanes and calculates steering angles by applying OpenCV-based computer vision algorithms on real-time dashboard camera footage to maintain accurate lane positioning

Authentify: AI-Powered Image Verification   Mumbai
Deep Learning & Computer Vision   April 2024-May 2024
- TensorFlow, PyTorch, OpenCV, GANs
- Developed an image authenticity verification system using GANs to detect manipulated content, implementing convolutional neural networks for forgery localization and creating synthetic datasets for robust model training

Cliplocator: Video Navigation   Mumbai
Natural Language Processing   April 2024-May 2024
- NLP Libraries (SpaCy, NLTK), Google Speech API,SpaCy
- Built a YouTube content navigation system leveraging NLP techniques including named entity recognition and keyword extraction. Enabled efficient search and retrieval within videos based on textual queries

Mobile Apps Automation Framework   Mumbai
Automation & Testing   January 2023-May 2023
- Android Studio, Appium, Python, Selenium
- Constructed comprehensive automation scripts for multiple Android applications. Implemented robust error handling and streamlined file processing workflows for increased reliability

StudyIt - Collaborative Learning Platform   Mumbai
Team of 4   August 2021-October 2021
- React, Firebase, Firestore
- Built a comprehensive study platform featuring secure file storage, task management, and community collaboration. Integrated shared notes functionality and collaborative study tools for boosted student experiences

PUBLICATIONS

Book Title: "AI Agents and Agentic Frameworks" (ongoing)
Supervisor: Prof. Archana Nanade
Synopsis: Thesis involves evolving understanding of how AI Agents can be utilized in real-world scenarios to enhance AI-driven solutions

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, HTML, CSS
Generative AI & LLMs: LLM Studio, Vertex AI, Hugging Face, LangChain, LlamaIndex, OpenAI, Anthropic, xAI, Gemini, Llama 3, Mistral
Statistics: Hypothesis Testing, Regression, Inference
Frameworks & Libraries: Scikit-learn, Keras, Hugging Face Transformers, OpenCV
Web & Application Development: React, Node.js, Express.js, WebContainer (WebAssembly, Vite, Yarn),Nextra
Databases: SQL, PostgreSQL || Cloud Platforms: AWS, Google Cloud

CERTIFICATIONS

Advanced Certificate in Artificial Intelligence and Machine Learning - Electronics & ICT Academy, IIT Guwahati - January 28, 2023 - August 30, 2024
- Completed a distinguished certification program supported by the Ministry of Electronics and Information Technology (MeitY), Government of India.

COMMUNITY SERVICE

Environmental Volunteer, Sahyadri Devrai NGO   Mumbai
Community Service   September 2021-September 2024
- "Organized and participated in tree plantation drives, restoring native forests and enhancing ecological balance and air quality in Satara and Sanjay Gandhi National Park

AWARDS

- 1st Prize – Implementation of Technology Hackathon | Oct 2021 | MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING | Awarded for development of StudyIt, a collaborative learning platform addressing educational needs with technology