

# DIGVIJAY SANJAY INGOLE

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## EDUCATION

### Master of Science MS, Computer Science

Aug 2023 - May 2025

California State University - East Bay, Hayward, California, USA

Coursework: Machine Learning, Advanced Algorithms, Cloud Computing, Cybersecurity, OS Design

## TECHNICAL SKILLS

Languages: Python, JavaScript, C, C++, Java, SQL, Dart, HTML, CSS, Swift

AI & Data Libraries: Gemini API, LangGraph, RAG, Vector Databases, Whisper, Picovoice, Deepgram, Pillow, NumPy, Transformers, PyTorch, Scikit-learn

Tools & Frameworks: NodeJS, Angular, Flutter, Git, Shell Scripting, React, Next.js, Tailwind CSS, pipecat-ai

Cloud & Database Technologies: AWS, Supabase, GCP, Firebase, MySQL, MongoDB

## WORK EXPERIENCE

### Software Engineer Intern, Chhaged LLC, Remote, USA

Aug 2024 - May 2025

- Built AI-powered enterprise meeting platform with Google Meet integration, implementing real-time transcription and intelligent summary generation using LLMs to reduce meeting follow-up time.
- Developed a production iOS application leveraging the Gemini API, implementing robust error handling and fallback mechanisms to ensure a seamless user experience during API failures.
- Implemented critical security features in a Flutter application, using AES-256 encryption to protect sensitive user data. Contributed to a cloud-based ML pipeline by developing modules for document analysis and automated report generation.

### Software Engineer, Mobigic Technologies, Pune, India Nov 2022 - July 2023

- Developed and deployed fintech application on cloud infrastructure supporting 450+ concurrent transactions with real-time data processing.
- Built production-grade project management platform using cloud services (Firebase, GCP) serving daily active users.
- Implemented data-driven performance optimization using A/B testing and analytics, resulting in 40% improvement in application response times.

## PROJECTS

### Specta - Voice Gaming Assistant | Python, Gemini Vision, Pipecat-ai, Picovoice, Whisper, Deepgram

- Engineered a voice-activated gaming assistant that captures screenshots and provides real-time AI-powered analysis using Gemini Vision.
- Implemented a complete voice pipeline: wake word detection (Picovoice), Speech-to-Text (Whisper), and Text-to-Speech (Deepgram) for a natural conversational experience.
- Built with the pipecat-ai framework, integrating multiple services for a seamless user interaction.
- Utilized PIL for screenshot capture and Gemini 2.5 Flash for contextual analysis of in-game situations.

### Agent DiNeo - Multi-Modal AI Assistant | Python, LangGraph, RAG Pipeline, Supabase, Vector Databases

- Developed a sophisticated AI agent using LangGraph to orchestrate 15+ specialized tools, and built its core knowledge base with a comprehensive RAG pipeline enabling semantic search over sources like Wikipedia, arXiv, and YouTube.
- Engineered a resilient multi-provider LLM pipeline (supporting Google Gemini, Groq, etc.) with intelligent fallback logic and automated retries to ensure high availability and consistent performance.
- Improved system response time by 42% by implementing intelligent caching, automated rate limiting, and exponential backoff strategies for processing diverse data types including text, images, Excel files, and video.

### Recipeee - AI-Powered Recipe Discovery Platform |

- Developed full-stack cross-platform mobile application using Flutter and Node.js with real-time WebSocket communication, implementing Provider state management and supporting iOS, Android, and web platforms.
- Engineered AI-powered recipe generation system with Google Gemini 1.5 Flash model and Tesseract.js OCR integration for grocery bill scanning, featuring multi-API key rotation and 120-second timeout handling for complex AI operations.
- Built a full-stack backend using Express.js, featuring comprehensive error handling middleware and integration with Cloudinary for scalable image processing and storage.

## ACHIEVEMENT & CERTIFICATES

ISTE Hack-SPRINT v3.0 2021, a 36-hour hackathon - Runner Up Prize, September 2021.

Certification: AI Agents Excellence - Hugging Face - Jun 2025

The Complete 2021 Flutter Development Bootcamp with Dart - Sep 2020