

Prakash Singh

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SUMMARY

Software Development Engineer with hands-on experience building enterprise AI solutions, including a **Voice Banking Proof of Concept** for **CorpGPT** during an internship at **Intellect Design Arena**. Skilled in **Python, FastAPI, MCP, and REST APIs**, with a strong foundation in backend development, problem solving, and building scalable software applications.

EXPERIENCE

Software Development Engineer Intern <i>Intellect Design Arena Ltd.</i>	Feb 2026 – Present <i>Chennai, Tamil Nadu</i>
- Developed a Voice Banking Proof of Concept for CorpGPT, enabling enterprise banking through natural voice conversations using Gemini 2.5 Flash Native Audio, Python, and FastAPI. - Built FastAPI endpoints for voice session lifecycle management, including session creation, deletion, and real-time communication with AI services. - Integrated MCP with real-time speech streaming to securely execute banking operations across 76+ enterprise banking tools. - Evaluated multiple speech architectures, including Gemini 2.5 Flash Native Audio, ElevenLabs, Google Chirp HD, and browser-based speech pipelines to identify the most suitable production-ready voice solution.	

PROJECTS

Visual Product Matcher	<i>FastAPI, Streamlit, MongoDB Atlas, Jina AI, Cloudinary</i>	Source Code
- Built an AI-powered visual search application using Jina CLIP v2 and FastAPI, enabling semantic product retrieval through image embeddings and cosine similarity search. - Engineered a vector search pipeline over 768-dimensional embeddings for 53 products across 5 categories with configurable Top-K retrieval and similarity filtering. - Developed and deployed the application using Streamlit Cloud and Vercel with Cloudinary for scalable image hosting and automated GitHub deployments.		

TECHNICAL SKILLS

Languages	: Python, Java, SQL, JavaScript, HTML/CSS
AI & ML	: MCP, Prompt Engineering, LLMs, Agentic AI, FastAPI
Frameworks	: FastMCP, Flask, React.js, Pandas, NumPy, Scikit-learn, Asyncio
Databases	: Oracle SQL (DeBeaver), MongoDB
Cloud & API	: GCP, Vertex AI, Gemini APIs, ElevenLabs API, REST APIs
Developer Tools	: Git, GitHub, GitLab, Postman, Claude Code, VS Code, Jupyter Notebook, Google Colab, Antigravity
Development	: SDLC, Agile Development
Platforms	: Windows, Linux (Ubuntu)

EDUCATION

Vellore Institute of Technology (VIT), Vellore <i>Master of Computer Applications (MCA) CGPA: 8.14</i>	Vellore, Tamil Nadu, India 2024 – 2026
Ashoka Center for Business & Computer Studies <i>Bachelor of Science in Computer Science CGPA: 8.90</i>	Nashik, Maharashtra, India 2020 – 2023

CERTIFICATIONS

AI for Beginners — HP LIFE Global Programming: Python Java Bootcamp Java Programming — Udemy Data Analytics Certification — GeeksforGeeks	
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