Kartikey

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EXPERIENCE

• **Turing**   *October'24 - Present*
Software Developer   California, United States
  ◦ Enhanced LLM-driven software performance, increasing multi-turn conversation quality by **35%** using prompt engineering and response tuning. Built internal dev tools using Python, Postgres, and Neo4j for scalable evaluations and experimentation
  ◦ **Tools Used:** Transformers, FastAPI, PostgreSQL, Git, Docker, JavaScript

• **WhatStyle**   *June'2025 - Present*
Founder, CEO   California, United States
  ◦ Built a WhatsApp-based AI persona that replicates user's communication style using LLMs, fine-tuned embeddings, and natural language processing. Designed an end-to-end system integrating Flask backend, Twilio WhatsApp API, MongoDB, and custom prompt engineering to enable real-time personalized responses.
  ◦ Deployed the system using Docker + VPS hosting for production-level performance and scalability.

• **Defence Research and Development Organisation [Website]**   *January'2025 - May'2025*
Research Trainee   Delhi, India
  ◦ Leveraged web scraping to extract and process 50,000+ data points from the DRDO website creating a comprehensive knowledge based for the AI customer support agent.
  ◦ Built an AI knowledge assistant with RAG pipelines (LangChain + LLMs) and automated DRDO content processing.
  ◦ Deployed via Docker, integrated APIs, and implemented full logging/debug layers with Git and Bash.

• **Business Quant**   *June'2023 -September'2024*
Machine Learning Engineer   Delhi, India
  ◦ Built secure financial document parsing pipelines, integrating OCR + NLP with PaddleOCR + Python.
  ◦ Designed secret-safe API services with JWT + role-based access for enterprise-grade fintech workflows and Improved model performance and deployed with Docker & Kubernetes for scalable infra across multiple cloud environments.

PROJECTS

• **CareMate – AI-Powered Chronic Disease Monitoring & Remote Care**   *April'2025*
Tools Used: OpenCV, Raspberry Pi, Arduino, TTS APIs, LLMs, Transformers   [Github]
  ◦ Full-stack (React + Node + Flask + Computer Vision +NLP + LLMs) AI-powered nurse with secure multi-lingual chat & medical data pipelines.
  ◦ Integrated LLMs with structured data to generate AI-driven responses and insights based on past symptoms.

• **AI Browser Agent (OSS))**   *July'2023*
Tools Used: Algorithmic Trading & System Optimization   [Github]
  ◦ Autonomous agent automating LinkedIn outreach, job applications, and meeting attendance.
  ◦ Built with TypeScript + Puppeteer, deployed securely with Docker + GitHub Actions.

EDUCATION

• **Bachelor of Technology in Information Technology**   *GPA-9*
KIET Group of Institutions, Delhi NCR   Nov'2022-June'2026

• **Senior Secondary**   *Percentage-95.8%*
CJ DAV Centenary School (CBSE), Meerut, U.P   April'2021 -July'2022

SKILLS

• **Programming Languages:** JavaScript (TypeScript, Node.js), Python, C++, Go (working knowledge), SQL (MySQL/Postgres)

• **Specialized:** React.js, Next.js, Flask, FastAPI, Express.js, LangChain, RAG, LLMs, AI Agents

• **Cloud & DevOps:** AWS, GCP, Firebase, Kubernetes, Bash scripting

• **Version Control & Other Tools:** Docker, Kubernetes, GitHub Actions, PKI, JWT/OAuth, Secret Mgmt APIs,

• **Other:** MLOps, Open Source Contributions, Web Scraping, MCP Servers

ACHIEVEMENTS

• **Winner – 5G Beyond Hackathon 2023 (Ministry of Telecommunications** Awarded 1,00,000 for developing.

• **Ranked 87th Nationwide – Amazon ML Challenge** at Amazon.

• Solved 600+ DSA question and achieved **1600+** Rating on Leetcode and become **Pupil** on Codeforces

• Winner at **Innotech'23(Prize Money - INR 8k)** *(Dec'23)*

• Scholarships: • AICTE Pragati Scholarship – 50,000 • LG Life's Good Scholarship – 1,00,000 for academic excellence

• Winner of ScriptedByHer Meesho Hackathon among 50000 candidates won 50000 rupees.

• Technical Coordinator, School of AI, ML & DS @ KIET (led 500+ student workshops on GenAI, security, and ML)