OM VAIRAGADE

Ai developer | Innovation specialist

Founder - Emper.ai

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EDUCATION

YCCE College of Engineering

- Bachelor of Engineering in Information Technology
- 2019 - 2023
- CGPA - 7.82
- Electives: Cloud Computing, Salesforce, Business Intelligence
- (Tableau)

SKILLS

- **AI & ML**: OpenAI GPT-4 and other models, Azure OpenAI, Prompt Engineering, agents, LLM APIs
- **Data & Analytics**: Databricks, CSV Mapping, ThreadPoolExecutor, Retry Logic, parallel processing
- **Languages & Tools**: Python, SQL, Java, Azure Load Balancer, Azure Runbooks, Azure backup and recovery, vertical & horizontal scaling, RTSP, VNet, NSG, Logic Apps

EXPERTISE

- **Innovation**: creation of entirely new AI models, tools, or features from scratch — no limits to imagination or execution
- **Quickest Solutions**: Instant logical reflexes to solve complex problems within seconds of hearing the use case
- **Initiative for New Ideas:** Proactively suggestions for powerful improvements, automations, and features — even before being asked
- **Continuous Upgradation**: exploration and adaptation of the latest tools and frameworks (e.g., n8n, Replit Agents, SlideSpeak)

CERTIFICATION

- Microsoft Certified: Azure Fundamentals - AZ-900 | Jan 2025

- English
- Hindi
- Marathi

ABOUT ME

Solution-driven AI Developer with hands-on experience designing intelligent cloud-integrated systems and automating large-scale data on Azure and Databricks. Proven track record of building real-time AI models in video surveillance, document generation, and cloud cost-optimization workflows.
Skilled in Python, GPT models, distributed computing, and cloud-native infrastructure. Adept at creating AI-powered tools that scale, automate, and secure enterprise-grade environments.

WORK EXPERIENCE & PROJECTS

DEC 2022 - PRESENT

AI Developer - TCS, AI.Cloud Team ,Tata Consultancy Services, Nagpur

- Key member of AI.Cloud initiative delivering enterprise-grade AI + cloud automation tools.
- Built and deployed intelligent systems using OpenAI, Azure infrastructure, and Databricks.
- Spearheaded multiple projects that improved cost-efficiency, security, and automation across diverse enterprise use cases.

Founder – Emper.ai ***JAN 2024 – JULY 2024***

- Built India's first GPT-powered hiring platform for skilled & unskilled workers, featuring intelligent AI matchmaking with dynamic job-candidate filters
- Developed a fully automated recruitment flow via WhatsApp and email; solo-launched and marketed the product to real users
- Enabled recruiters to submit custom job prompts (e.g., "I need a cook who can also manage groceries for $7k"), generating precise matches using GPT-based interpretation

AI MODELS MADE: (INDIVIDUALLY - END TO END)

AI-Based CCTV Alert System (on any rtsp camera) - Ai agent

Tech Stack: Python, OpenCV, Azure VM, GPT-4.1 Nano, Telegram Bot, RTSP, termux - ssh

- Developed an RTSP-based AI surveillance model to analyze CCTV frames every 10 seconds and trigger alerts via Telegram based on custom alerts (e.g lone baby near pool, or security guard is sleeping, zone overcrowded , equipment lying on floor etc).
- Optimized for real-time inference with minimal latency using compressed image pipelines and GPT-based frame analysis.
- Deployed via Tailscale and Flask backend for remote edge-device integration.

Fast Image Analysis Ai Model for Cloud Diagrams

Tech Stack: Python, PIL, OpenAI GPT-4.1 nano, Azure Functions

- Engineered an ultra-lightweight image analysis model that converts complex cloud architecture diagrams into actionable text summaries.
- Reduced inference time and cost using image compression (PIL), token optimisation & cached prompts.
- Integrated into cloud environments for IT audits and documentation validation.

AI Chunk Processor for Large Files / big data (no limits)

Tech Stack: Databricks, Python, Pandas, GPT-4, ThreadPoolExecutor

- Built an AI pipeline to chunk and process massive Excel datasets, using asynchronous GPT calls and up to 8 parallel worker threads.
- Implemented custom retry logic with exponential backoff (up to 5 times) for reliability during API load.
- Achieved 5x faster processing vs traditional serial approaches in multi-node environment.

CSV Dependency Mapper + AI Inference

Tech Stack: Databricks, Pandas, GPT-4, Azure Blob, Azure Logic Apps

- Created a smart mapping tool for CSV infra data that identifies inbound/outbound dependencies.
- Used AI inference to fill missing details such as port-service mappings, written to an "AI Analysis" column for audit and documentation.
- Optimized for scalable execution across hundreds of CSVs.