

VED PRAKASH PATHAK

AI | ML System Architect

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EXPERIENCE

Vice President | [Legend's Crafts \(DocExtract.ai\)](#)

Mar 2025 – Present

- Leading product strategy and AI development for DocExtract.ai, an AI-powered document intelligence platform that extracts structured data from PDFs, scanned images, and invoices, delivering output in Excel, CSV, and JSON formats.
- Architected an intelligent document processing pipeline integrating OCR, layout analysis, and LLM-based field extraction enabling seamless ERP and CRM integrations to the platform.
- Overseeing end-to-end platform development including invoice parsing, automated data entry elimination, custom field mapping, batch processing, and audit trails for compliance.
- Driving platform adoption and business strategy for SMEs, finance teams, and operations workflows requiring high-accuracy document automation at scale.

AI Developer | [Legend's Crafts \(DocExtract.ai\)](#)

Jul 2024 – Mar 2025

- Designed and built Intellifind.ai, a cutting-edge multimodal AI platform empowering SMBs to manage and interact with business data across spreadsheets, images, videos, and PDFs — without any technical expertise.
- Developed customizable AI workspaces for Knowledge Database, Inventory management, and Invoice processing with real-time data interaction via a conversational AI chatbot.
- Implemented RAG-based retrieval pipeline for document Q&A, enabling automated inventory updates and CSV/JSON invoice conversion with multi-format file support.

Freelance AI Developer & Machine Learning Engineer | [Self-Employed](#)

Apr 2023 -

- Built a sub-millimetre precision Computer Vision system capable of detecting hairline cracks as small as 0.05mm on 1mm rivets a tolerance level that defeats conventional inspection methods enabling automated pass/fail quality control on high-throughput industrial conveyor lines.
- Engineered a real-time wire harness measurement system using ArUco marker-based spatial calibration and morphological skeletonization to measure wire lengths and detect branch junctions with high accuracy, replacing manual inspection entirely.

INDEPENDENT PROJECTS & VENTURES

[RactoGateway — Python Library](#)

- Authored and published RactoGateway, a Python library designed to streamline AI/ML API gateway patterns, simplifying routing, authentication, and request management for AI-powered backends.

[EM-telligence.ai — Offline Email Intelligence Platform \(In Development\)](#)

- Founder of EM-telligence.ai, an on-premise offline email intelligence platform leveraging locally hosted LLMs for privacy-preserving email analysis, smart reply generation, and workflow automation — without cloud dependency.
- Designed for enterprises requiring data sovereignty, integrating Ollama-hosted models (Qwen, LLaMA variants) with GGUF quantization for efficient local inference.

SKILLS

- Languages: Python, HTML & CSS, JavaScript
- Domains: NLP, Computer Vision, Generative AI, Document Intelligence, Industrial AI
- AI Techniques: RAG, NER, POS tagging, text classification, sentiment analysis, topic modeling, text summarization, semantic extraction, OCR, GAN training
- Cloud Platforms: AWS, GCP, Azure
- DevOps / Infra: Docker, Kubernetes
- LLM Tooling: Ollama, llama.cpp, GGUF quantization, BitsAndBytes, Qwen, LLaMA
- Text Representation: n-grams, TF-IDF, Word2Vec, GloVe, BERT, GPT

EDUCATION

Bachelor of Engineering — Mechanical Engineering

CGPA: 7.54

Rajiv Gandhi Proudlyogik Vishwavidyalaya, Bhopal | 2015 – 2019