

ABHISHEK DUBEY

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AI/ML Engineer | Full Stack Developer

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SUMMARY

AI/ML and Full Stack Engineer with 2+ years building production Generative AI systems and end-to-end web platforms. Sole developer of PixelGPT, an enterprise RAG and JIRA-agent assistant in production, and of Prajna, a 130,000-line autonomous trading platform for Indian equities. Depth in Python, FastAPI, RAG architectures, LLM agents with tool calling, and model deployment across OpenAI, AWS Bedrock, Ollama and RunPod GPUs, with full-stack delivery in React and Next.js.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), TypeScript, PHP, SQL, C

AI & Machine Learning: Generative AI, RAG (hybrid, graph, vectorless), LLM fine-tuning, AI agents and tool calling, prompt engineering, LangChain, LangGraph, Graphiti, Hugging Face Transformers, Ollama, OpenAI API, AWS Bedrock (Amazon Nova), Groq, scikit-learn, TensorFlow/Keras, PyTorch, LSTM, NLP and sentiment analysis

AI Tooling: Claude Code, Claude AI, Claude Design, MCP (Model Context Protocol) connectors, OpenAI Codex, AI-assisted development workflows, Canva

Backend: FastAPI, Flask, Celery, Redis, Node.js, Express.js, Core PHP, CodeIgniter, REST API design, WebSockets, Server-Sent Events, SQLAlchemy, Alembic

Frontend: React, Next.js, Three.js, React Three Fiber, GSAP ScrollTrigger, Lenis, Zustand, Vite, Ajax, Tailwind CSS, Bootstrap, HTML5, CSS3, Recharts

Databases: PostgreSQL, MySQL, Neo4j, ChromaDB, Redis, query optimisation, phpMyAdmin

Cloud & DevOps: AWS Bedrock, RunPod, Docker, Git, GitHub Actions CI/CD, Render, Linux, systemd

PROFESSIONAL EXPERIENCE

Jr. Software Developer - AI/ML & Full Stack | Aug 2024 - Present

Cyber Infrastructure (CIS) Pvt. Ltd. | Indore, Madhya Pradesh

PixelGPT - ai.pixel-base.de | Internal AI assistant for employee support and JIRA operations (Sole Developer)

- Built an enterprise Generative AI assistant end to end, owning React frontend and Python/FastAPI backend from architecture to production.
- Implemented hybrid RAG across ChromaDB vectors, a Neo4j knowledge graph with Graphiti temporal memory, and PostgreSQL.
- Shipped a conversational JIRA agent that creates, reads, updates and deletes tickets through natural language via LLM tool calling.
- Orchestrated inference across OpenAI, self-hosted Ollama and RunPod GPU models to balance cost, latency and data privacy.
- Raised retrieval precision with markdown-aware chunking and a custom reranker; shipped via Docker and GitHub Actions CI/CD.

eTravel Hub - etravel-hub.com | Travel document and visa assistance service (Full Stack + AI Automation)

- Developed the customer website and internal admin panel in Next.js, covering UI, API layer and data flow.
- Integrated an AI travel-support chatbot serving both travellers and support staff with real-time guidance.
- Automated operational email drafting with LLM agents and built cron jobs that sync and clean booking data on schedule.

LoveMedia - love-media.uk | UK on-demand digital newspaper and magazine platform (Core PHP Engine + Document AI)

- Built the Core PHP engine that ingests client-server files and drives them through the platform's processing pipeline.
- Shipped an AI Reader Mode that parses incoming PDFs into ordered text and images, rebuilding them as clean semantic HTML.

Software Developer Intern | Jan 2024 - May 2024

Numeric Infosystem Pvt. Ltd.

- Developed full-stack MERN applications with a focus on scalable, modular architecture.
- Increased code coverage to 85% by implementing automated testing suites.
- Contributed to 15+ feature releases through agile sprints and peer code reviews.

PROJECTS

Prajna - Autonomous AI Trading Platform (avishktrade.in) | Personal Project, Sole Developer

- Built a production algorithmic trading platform end to end: 96,000-line Python/FastAPI backend and 33,000-line React frontend across 26 REST services and 55 PostgreSQL tables.
- Engineered an event-driven pipeline on Celery and Redis running 40+ scheduled jobs, from 5-second stop-loss sweeps to 15-minute NSE-wide scoring cycles.
- Designed a multi-factor scoring engine fusing technical, news, macro, earnings and options signals, persisting every decision snapshot for audit and backtest replay.
- Integrated an LLM agent layer on AWS Bedrock (Amazon Nova Pro) with tool calling for event classification, trade-reasoning gates and streaming SSE chat.
- Trained per-symbol LSTM classifiers in TensorFlow/Keras and scikit-learn ensembles with time-series cross-validation for next-day direction prediction.
- Built an NLP news subsystem crawling 7+ sources with sentiment scoring, an entity-impact graph and LLM parsing of earnings-call PDFs.
- Implemented a risk engine with drawdown circuit breakers, correlation guards and volatility-aware sizing; integrated Zerodha Kite and Upstox WebSocket feeds.

AIDWAY Consultancy - aidwayconsultancy.com | Multi-division growth consultancy, healthcare to digital (Freelance, Full Stack)

- Delivered the production Next.js site end to end as a freelance engagement, covering frontend, APIs, database, SEO metadata and deployment across service, case-study and blog routes.

MANTOM - 3D Cinematic Product Homepage (mantom.vercel.app) | Full Stack + 3D

- Built a scroll-driven, Apple-style 3D homepage for a German premium football brand, with scroll as the narrative driver from brand story to product anatomy to social proof.
- Architected a single persistent WebGL Canvas fixed behind scrollable DOM sections, syncing 3D camera and DOM animation through a shared GSAP ScrollTrigger and Lenis ticker.
- Built an "Anatomy of a Perfect Ball" exploded-view component mapping scroll progress to 3D layer offsets in real time.
- Held a strict performance budget: models and textures under 4 MB, JS under 400 KB gzipped, adaptive DPR capping, and a prefers-reduced-motion static fallback.
- Delivered a full German-language UI with Impressum, Datenschutz and AGB routes for TMG and GDPR compliance.
- Stack: Next.js 15 (App Router), React Three Fiber, GSAP ScrollTrigger, Lenis, Zustand, TypeScript, Tailwind CSS, Vercel.

Earlier Projects - RoomDekha & Healthcare NGO | 2023

- RoomDekha (Sept 2023) - room rental platform; led frontend and backend integration and owned the full data flow as project manager.
- Healthcare NGO (Feb 2023) - doctor-patient connection platform; directed integration and guided the build from concept to completion.
- Stack for both: HTML, CSS, Bootstrap, JavaScript, Ajax, PHP, SQL.

EDUCATION

Master of Computer Applications (MCA) | 2022 - 2024

Madhav Institute of Technology and Science

CERTIFICATIONS

- Blockchain and its Application - NPTEL (NPTEL23CS47533680042)
- The Fundamentals of Digital Marketing - Google Digital Garage (UGE V2C YWG)
- National Financial Literacy Assessment Test - NCFE-NFLAT (2M/CMPUE11104/01212)