

PRIYANKA KUMARI

AI/ML Engineer

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PROFESSIONAL SUMMARY

AI/ML Engineer building production AI systems - agentic pipelines, RAG and LLM applications - with the backend engineering that keeps them correct under load. Currently AI Engineer at ShipCube, promoted from a data science internship after three months. Experienced across Generative AI, NLP, computer vision and high-concurrency API design in Python.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript

Generative AI & NLP: LLMs, Agentic AI, RAG, LangChain, LangGraph, Hugging Face Transformers, ChromaDB, BM25, Vertex AI, Gemini

Machine Learning & CV: scikit-learn, TF-IDF, Classification, Recommendation Systems, NLTK, Sentiment Analysis, OpenCV, MediaPipe, DeepFace

Backend & Data: FastAPI, Flask, Streamlit, Node.js, Express, PostgreSQL, MongoDB, Redis, BigQuery, SQLAlchemy, REST APIs, Celery

Frontend & DevOps: React, Vite, TypeScript, Tailwind CSS, Next.js, Docker, Google Cloud Run, Git, CI/CD, pytest, Locust, n8n, Power BI

PROFESSIONAL EXPERIENCE

AI Engineer

ShipCube (Remote) | Jan 2026 - Present

- Promoted to full-time AI Engineer after a three-month data science internship.
- Design and ship internal AI and automation services for 3PL logistics operations, spanning agentic LLM pipelines, RAG retrieval, cloud deployment and full-stack delivery.
- Built a production operations dashboard serving three role-based user groups, with JWT sessions and role-based access control; React and TypeScript frontend, Node.js backend.
- Engineered a natural-language assistant that routes each question to the correct data source and returns a live answer or generated report, with OAuth handling that survives serverless cold starts.
- Replaced a low-code billing workflow with a deterministic Python service (FastAPI, Docker, Cloud Run) where every charge is a pure function - keeping LLMs out of financial calculations so results stay reproducible and auditable.
- Built an AI email bot on an agentic pipeline (Hugging Face, LangChain, LLMs) with knowledge-base ingestion and RAG for context-aware understanding and dynamic replies.

Data Science Intern

ShipCube (Remote) | Oct 2025 - Dec 2025

- Built an AI email automation system using NLP and sentiment analysis to improve client communication efficiency.
- Engineered sentiment analysis and content categorisation models in Python, reaching **96% accuracy** on held-out test data.

Design & Development Engineer (Intern)

Precision Electronics Limited | Jul 2024 - Sep 2024

- Automated data processing workflows in Python and Excel, cutting manual workload by **40%**; built Power BI dashboards that improved decision-making efficiency by **35%** and cross-team transparency by **25%**.

PROJECTS

CreatorOS - Generative Video Platform | [case study](#)

FastAPI, React, TypeScript, FLUX.1-schnell, Kokoro-82M, ffmpeg

- Built a **6,310-line** Python API turning one goal into a finished 1080x1920 vertical video across **8** generative stages, with provider-agnostic LLM routing and automatic failover across Hugging Face, Ollama, vLLM and llama.cpp.
- Cut generation cost by expanding only opened concepts - **200** screened concepts per keyword from one pass - and ran Kokoro-82M TTS locally at **0.8x realtime** on CPU behind a 3-provider fallback, removing the API dependency.

AI Research Agent - Agentic Research Platform | [case study](#)

FastAPI, LangGraph, ChromaDB, Next.js, Celery, Redis, Docker

- Built an **8-stage** agentic pipeline aggregating **13** verified research sources into fully cited reports across **4** export formats.
- Implemented hybrid retrieval (vector + BM25, reciprocal rank fusion) with sentence-aware chunking, plus cross-source fact verification with conflict detection and per-claim confidence scoring.

High-Concurrency Flash Sale Ticket Booking System | [case study](#)

FastAPI, PostgreSQL, Redis, asyncpg, Locust, Docker

- Sustained **500** concurrent users in load testing with **0** oversells and **0** database crashes, guaranteeing each of 100 tickets sold exactly once via PostgreSQL row-level locking (SELECT ... FOR UPDATE).
- Absorbed roughly **99%** of sold-out traffic in a Redis layer, rejecting requests in under **5 ms** before they reached PostgreSQL.

Resume Screening App & EmotionGesture AI | [case study](#)

scikit-learn, TF-IDF, KNN, OpenCV, MediaPipe, DeepFace, Streamlit

- Trained a KNN classifier on TF-IDF features to **98%** test accuracy across **25** job categories, shipped notebook-to-browser with PDF parsing behind one upload.
- Built a real-time vision pipeline recognising **8** gestures, **0-10** fingers across 2 hands and **7** emotions from one webcam feed, flicker-free via a temporal stabiliser, a 1-Euro filter and threaded capture.

EDUCATION

Bachelor of Computer Applications (BCA) - IIMT University | 2025

Class XII, CBSE - Vidya Bal Bhawan Senior Secondary School - 78% | 2022