

Prabhat Kumar

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Summary

AI and ML enthusiast with practical experience in building RAG-based systems, document intelligence pipelines, and AI chatbots during internship at MeitY (NeGD). Strong foundation in Python, NLP, LLM and vector search systems. Looking for full-time roles in AI/ML engineering and applied Generative AI.

Technical Skills

Programming: Python, SQL

AI/ML: RAG, Embeddings, LLM Integration, NLP, OCR Evaluation

Frameworks: LangChain, ChromaDB, Transformers, Scikit-learn

Backend Development: FastAPI, API Integration, JSON Handling

Document AI: PDFPlumber, PaddleOCR, Tesseract

Data Tools: IBM Cognos, Power BI, Tableau

Concepts: Vector Search, Cosine Similarity, Recursive Chunking

Tools: Git, VS Code, Jupyter, AWS S3

Experience

Ministry of Electronics and Information Technology (MeitY)

National e-Governance Division (NeGD)

Technical Intern – AI/ML Domain

28 Jan 2026 – Present

- Developing AI-powered citizen service solutions including intelligent scheme discovery systems.
- Built end-to-end RAG pipeline with document parsing, chunking, embeddings, and vector search.
- Optimized cosine similarity retrieval to improve answer relevance and reduce hallucinations.
- Evaluated and benchmarked OCR and document extraction tools for structured data processing.

Projects

PMJAY Multiplatform AI Chatbot

2026 – Present

- Designing and developing an AI-powered chatbot for PMJAY supporting Web, WhatsApp, and Mobile App platforms.
- Implemented RAG-based architecture for accurate policy and eligibility query resolution.
- Integrated multilingual support and context-aware conversational workflows.
- Designed scalable backend APIs for real-time query processing and response generation.

AI-Based Document Digitization & Preservation

Feb 2025 – May 2025

- Developed OCR + NLP pipeline for digitizing historical handwritten records.
- Fine-tuned Tesseract OCR for improved Devanagari recognition.
- Integrated translation and metadata tagging modules.
- Implemented AWS S3 storage for scalable archival.

Covid Vaccine Analytics with IBM Cognos

Aug 2023 – Oct 2023

GitHub Repository

- Built dashboards and heatmaps to analyze vaccination trends.
- Applied predictive analytics to forecast healthcare demand.
- Conducted comparative state-wise and global data analysis.

Education

B.Tech – Information Technology

2021 – 2025

Anna University, Chennai

CGPA: 7.78

Certifications

- Machine Learning Operations for Generative AI – Google Cloud
- Microsoft Professional Program in Artificial Intelligence – Edunet Foundation
- Artificial Intelligence and Machine Learning – Edunet & Great Learning
- Introduction to AI and Machine Learning - Google Cloud
- Business Ethics & Values - Cloud Counselage Pvt. Ltd.

Languages

English – Professional Proficiency

Hindi – Native Proficiency

German – Beginner (A1)