

# PRADIP KUMAR VERMA

B.Tech AI & Data Science | ML / AI Engineer Intern | Data Science Intern

## CONTACT

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## SUMMARY

Artificial Intelligence & Data Science undergraduate with strong hands-on experience in Machine Learning, Data Science, and AI system development. Built end-to-end ML pipelines and production-ready backend APIs using Python, FastAPI, Flask, and Scikit-learn. Developed real-world projects including an AI Resume Ranking Engine, a Loan Approval ML system, and a local LLM-based multi-document RAG chatbot.

Strong understanding of data preprocessing, feature engineering, model evaluation, and ML deployment. Interested in ML Engineer, AI Engineer, or Data Science internship roles where I can work on scalable systems and solve real-world problems.

## SKILLS

Programming: Python, SQL

ML & Data: Pandas, NumPy, Scikit-learn, Matplotlib

NLP & LLM: NLP, Embeddings, RAG, ChromaDB, Ollama (LLaMA 3)

Backend: REST APIs, FastAPI, Flask

Tools: Git, GitHub, VS Code, Jupyter

## PROJECTS

### AI Resume Ranking Engine | Machine Learning, NLP, Explainable AI

GitHub: <https://github.com/pradeepverms/AI-Resume-Ranking-Engine>

- Built an AI system to rank resumes beyond keyword matching using semantic similarity
- Implemented NLP embeddings to align resumes with job descriptions by skill relevance
- Designed explainable scoring to expose bias and instability in traditional ATS systems
  - .Created a modular pipeline for resume parsing, feature extraction, and ranking

### Loan Approval ML System

#### Loan Approval ML System | Python, Flask, Scikit-learn

GitHub: <https://github.com/pradeepverms/loan-approval-ml-api>

- Built an end-to-end ML pipeline for loan approval prediction on structured data
- Performed feature engineering, model training, and evaluation using Scikit-learn
  - Deployed the model as a REST API using Flask for real-time inference

### Multi-Document RAG Chatbot

#### Multi-Document RAG Chatbot (Local LLM) | Python, RAG, ChromaDB

GitHub: <https://github.com/pradeepverms/multi-document-rag-chatbot>

- Built an offline RAG chatbot for querying multiple PDFs using semantic search
  - Implemented embeddings, chunking, and retrieval with ChromaDB
  - Integrated Ollama (LLaMA 3) for local inference without paid APIs

## EDUCATION

B.Tech – Artificial Intelligence & Data Science

Parul University, Gujarat

2024 – 2028