

# Chetan Malav

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## Career Summary

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- **AI/ML Engineer** with 6 month of experience, including 1 years focused on Artificial Intelligence and Machine Learning.
- **Web developer Intern** with 2 month of experience , including 6 month focused on Web development .
- Designed and delivered an AI-powered **Fitsol Chatbot** using FastAPI, FAISS, OCR, and Google Vertex AI, enabling context-driven sustainability insights and intelligent customer interactions.
- Successful Project Leader who improved user engagement and stock recommendation accuracy in high-impact projects for notable clients.
- Python Developer with proficiency in Django, Flask, REST API development, and API testing using tools like JMeter and Postman.
- Experienced Data Engineer adept at data extraction, pre-processing, and analysis, including time-series forecasting and data web-scraping. **Git**.

## Employment History

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June 2025 – Present

**Artificial Intelligence Engineer** at Fitsol Supply Chain Solutions Pvt. Ltd., Gurugram .

June 2024 - September 2024

**Web developer** at Juneco Infotech Private Limited, Taramandal, Gorakhpur .

## Education

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November 2022 – Present

**B.tech., Govt. Engineering college, Jhalawar** in CSE.  
Percentage: 8.2%

April 2020 – March 2021

**Higher Secondary**, Jawahar Navodaya Vidyalaya, Khairabad  
Percentage: 82.40% (CBSE)

April 2018 – March 2019

**Secondary** Jawahar Navodaya Vidyalaya, Khairabad  
Percentage : 74.4% (CBSE)

## Professional Experience

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### **Project Name: Fitsol Chatbot – AI-Powered Conversational Assistant (Client – Fitsol, Sustainability Solutions)**

- Organization : Independent Project / Consulting Engagement. Location : Remote
- Role : Artificial Intelligence Engineer (End-to-End Development)
- Use case: Designed and implemented an AI-powered chatbot to provide context-driven answers based on Fitsol's website and LinkedIn data. Tools and Technologies: Python, FastAPI, FAISS, SentenceTransformers (MiniLM), Google Vertex AI (Chat-Bison/Gemini), Selenium, BeautifulSoup, Tesseract OCR, EasyOCR, HTML/JavaScript (Chat UI).
- Data Sources: Extracted structured text and image-based OCR data from Fitsol's website and LinkedIn company profile.
- Data Pre-processing: Cleaned, normalized, and chunked text into segments (512–1024 tokens) to enable efficient semantic retrieval.
- Vector Database: Implemented FAISS for similarity search and semantic matching of queries against embeddings.
- Model Architecture: Combined embedding-based retrieval with Google Vertex AI LLM for context-enriched, domain-specific responses.
- Training and Evaluation: Validated using an Admin Test UI with query testing, token/cost tracking, response latency measurement, and retrieval context logging.
- Results: Delivered a fully functional chatbot with both public-facing Chat UI and internal Admin Test UI, enabling Fitsol to provide accurate, explainable, and cost-aware responses.
- Challenges and Solutions: - Challenge: Extracting meaningful text from dynamic pages and image-heavy content. - Solution: Hybrid scraping pipeline with Selenium + BeautifulSoup + OCR (Tesseract/EasyOCR fallback). - Challenge: Efficient handling of large-scale data for fast responses. - Solution: Optimized FAISS index with pre-chunked embeddings.
- Achievement: - Built an end-to-end scalable chatbot system deployed via FastAPI. - Reduced response latency with optimized FAISS-based retrieval. - Enabled monitoring of token usage and costs through Admin Test UI. - Established production-ready pipeline combining web scraping, OCR, vector storage, and Vertex AI integration.

### **Project Name: Online E-Book Selling System**

- Organization : Juneco Infotech Private Limited, Location: Taramandal, Gorakhpur
- Role : Web Developer (full Stack Development) .
- Use case Technologies: Used Python, Django, mysql .
- Model Architecture: Model View Template (MVT) .
- Results: Successfully

## Skills

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Operating Systems	Windows, Mac
API Integration	RESTful APIs, API authentication and security OAuth, JWT.
Python	NumPy, Pandas, Seaborn, Matplotlib, Sklearn, PyTorch, TensorFlow, Flask, Requests, HTTP.
Machine Learning and AI	Linear Regression, Logistic Regression, Decision Tree, KNN, Random Forest,. Clustering, Association Rules, PCA Generative AI Natural Language Processing (NLP) Chunking, Embeddings.
Conversational AI	Intent classification, Entity recognition
Deep Learning	ANN, RNN, CNN ,LSTM
DevOps	Integration/Deployment (CI/CD)
Ensemble Techniques	Bagging, Boosting
Data Exploration and Visualization	Dimensionality Reduction, Feature Extraction, Model Evaluation.
Database	Mysql, GraphDB
Typing	English , Hindi

## Personal Details

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Father's Name	Satyanarayan Malav
Date of Birth	23-04-2002
Nationality	Indian
Languages	English, Hindi, Rajasthani
Address	Near of Hanuman Mandir , Teh: , Dist: Kota , Rajasthan.