

# CHETAN PAWAR

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## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, Rust, C++

**AI/LLM Engineering:** LangGraph, CrewAI, Agno (Phidata), LangChain, RAG, Hugging Face Transformers

**ML & Data Science:** Scikit-learn, XGBoost, TensorFlow, PyTorch, Pandas, NumPy

**Cloud & Infrastructure:** AWS (S3, EC2), Kubernetes, Docker, Git, CI/CD, MLOps

**Backend & Databases:** FastAPI, Flask, Vector database (ChromaDB, Pinecone), MySQL, SQLite

**Concepts:** Machine Learning, Deep Learning, Natural Language Processing (NLP), Generative AI, Feature Engineering, Statistical Analysis, A/B Testing

## EXPERIENCE

### Cilow AI

AI Intern

United States (Remote)

Sep 2025 - Nov 2025

- **Founding AI Engineer Intern** at a venture-backed AI infrastructure startup focused on persistent memory and context engines for agents.
- **Contributed to product demonstration and technical narrative** by developing materials to showcase core platform capabilities.
- **Gained experience** within a production technology stack including **Rust**, Kubernetes, and custom **vector/graph databases**.

### Kortix AI (Suna)

Open Source Contributor

- Contributing to the **Suna agent framework's infrastructure**, focusing on **Python packaging** and build system stability.
- Refining **build configurations** and **dependency resolution** for reproducible developer environments.
- Integrating features through **GitHub Actions CI/CD**, following **version control** and **automated testing** standards.

## PROJECTS

### RepoBot AI [GitHub](#) | [Live Demo](#)

- **Engineered** a GenAI web app using **Flask** and **Groq AI** to analyze **500+ GitHub files**, improving code comprehension via a conversational agent.
- **Built** a semantic search system with **ChromaDB** and **Hugging Face embeddings**, enabling accurate retrieval across **400+ code chunks**.
- **Automated** an end-to-end **RAG pipeline** for repo ingestion and vector storage, boosting processing efficiency by **30%**.
- Enhanced query context by integrating a memory-augmented agent for dynamic, context-aware code explanations.

### TripCrew [GitHub](#) | [Live Demo](#)

- **Engineered an autonomous Multi-Agent System** using **CrewAI** and **Groq (Llama 3.1)**, reducing itinerary planning cycles by **95%** through automated real-time research.
- **Developed custom Python scraping tools** (**DuckDuckGo**, **BeautifulSoup**) that optimized **API token efficiency** by **80%** via strategic context window management.
- **Implemented Sequential DAG architecture** for context-aware agent communication, ensuring **hallucination-free** data retrieval and accurate budget forecasting.
- **Deployed a responsive Streamlit UI** with threaded execution, resolving complex signal conflicts to maintain **100% application stability** during background processing.

### End To End Food Delivery Time Prediction [GitHub](#) | [Live Demo](#)

- **Developed** and **deployed** an **XGBoost regression model** to predict food delivery ETAs, aimed at optimizing logistics and reducing average delivery time by **15%**.
- **Executed** comprehensive **data cleaning** and **feature engineering**; addressed **outliers**, **missing values**, and **multicollinearity** to improve dataset quality.
- **Evaluated** and tuned multiple algorithms (**Linear Regression**, **Decision Trees**, **Random Forest**); optimized **XGBoost** to achieve an **R-squared of 0.82** and **RMSE of 3.98** on test data.
- **Deployed** the final model as an interactive web application using **Streamlit**, allowing for real-time delivery time predictions.

## EDUCATION

**B.Tech, Computer Science & Eng.** (Sandip University, Nashik) | CGPA: 8.3/10 | 2022-2025

**Diploma, Computer Technology** (MVPS's RSM Polytechnic) | Score: 82% | 2020-2022

## CERTIFICATIONS

**Data Analysis** (Microsoft & LinkedIn), **Complete Machine Learning, NLP Bootcamp, MLOPS & Deployment** (Krish Naik)