

Neeraj Chormale

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PROFESSIONAL SUMMARY

Final-year CSE student currently building Usebox at Toshal Infotech — an AI tutoring chatbot powered by Neo4j knowledge graphs and Milvus RAG that generates personalized labs from a learner's understanding level. Focused on production AI agents, retrieval pipelines, and backend infrastructure in Python, FastAPI, and LangGraph.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: FastAPI, Flask, Pandas, PyTorch, LangGraph

Databases & Tools: Neo4j, Milvus, PostgreSQL, Git, Docker, MLflow, AWS, Linux

EXPERIENCE

Python AI/ML Intern | Toshal Infotech Pvt. Ltd. – Surat, Gujarat Jan 2026 – June 2026

- Developing Usebox, an AI-powered personalized learning chatbot that lets business users learn AI concepts through interactive conversations and auto-generates customized hands-on labs tailored to each user's current understanding level.
- Architected a Neo4j knowledge graph to structure domain-specific AI concepts and their relationships, enabling multi-hop retrieval and reasoning that a flat vector store can't support.
- Integrated a Milvus vector database to power retrieval-augmented generation (RAG), grounding chatbot responses in source material and cutting hallucinations on out-of-distribution questions.
- Tech Stack: Python, FastAPI, Neo4j, Milvus, LangGraph, Crawl4AI

AI Intern | iLink Digital – Pune, Maharashtra May 2025 – August 2025

- Developed an Intern Companion Agent using Copilot Studio and an Intern Attendance Portal using Power Apps, seamlessly integrating both for smooth interns operations.
- Collaborated with senior team members, providing UI design support for Power Apps projects to ensure user-friendly and enhanced experience interfaces.
- Tech Stack: Python, Git, Power Apps, Copilot Studio

Web Developer Intern | Agarwal Creations Fashions Pvt. Ltd. – Pune, Maharashtra June 2024 – August 2024

- Redesigned company's e-commerce website on WordPress, integrated essential functionalities such as cart, wishlist and inventory management through multiple extensions.
- Improved website visibility and search engine ranking by implementing SEO best practices, contributing to increased organic traffic from 130 visitors per month to 2.5k visitors per month.
- Designed and built professional portfolios for company internal high-level professionals using HTML and CSS.
- Tech Stack: Wordpress, HTML, CSS, Bootstrap

PROJECTS

Data Center Cooling Optimization using Reinforcement Learning | Python, Gymnasium, StableBaseline3, Matplotlib

- Designed a custom Gymnasium environment simulating a multi-zone data-center cooling system with realistic thermal dynamics and power-consumption modeling.
- Trained a Soft Actor-Critic (SAC) agent using temporal-difference learning to control cooling effort in a continuous action space while keeping all zones within target temperature bounds.
- Built evaluation scripts with live 3-plot rendering (temperature, power, reward) for reproducible performance analysis across seeds.

IronLog | Gym Logging PWA – Python, FastAPI, React, PWA

- Built a Progressive Web App (PWA) for logging gym exercises and tracking workout splits across different days, optimized for mobile-first experience and offline functionality.
- Implemented responsive design enabling seamless usage on iPhone via bookmark, providing quick access to daily workout logging and progress tracking.
- Developed intuitive UI for managing exercises, sets, reps, and rest periods with persistent local storage and sync capabilities.

ReWatch | Watch Recommendation System – Python, scikit-learn, pandas, NumPy

- Developed a content-based recommendation system for wristwatches using Python and scikit-learn.
- Engineered features from structured (brand, style, movement, price) and unstructured (features text) data using one-hot encoding, standard scaling, and TF-IDF vectorization.
- Implemented cosine similarity to match user preferences with watches and generate personalized recommendations.

CERTIFICATES

Neo4j Certified Professional Neo4j	Issued Mar 2026
AI Agents 101: Building AI Agents with MCP AMD	Issued Nov 2025
Machine Learning DeepLearning.AI	Issued Jul 2025

EDUCATION

DY Patil International University	7.89 CGPA
B.Tech CSE – Final Year · 2022 – 2026	
Nowrosjee Wadia Science College	52.20%
Jr College · 2020 – 2022	
SNBP International School	82.20%
High School · 2019 – 2020	