

Kanchan Chopde Software Engineer

 kanchan.chopde@wayne.edu  248-840-2378  Detroit, MI  in/kanchan-chopde  github.com/KChopde

PROFESSIONAL PROFILE

Software Engineer with 4+ years of experience in scalable full-stack development and cloud services.

EMPLOYMENT HISTORY

- Research Assistant** at Wayne State University, Detroit, MI Present
Neural Conversational Agent for Weight Loss Counseling: Protocol for Implementation and Feasibility Study
- Assisted in **code refactoring** to improve modularity, readability, and performance of the neural conversational agent system.
 - Supporting **research tasks** related to large language models (LLMs), particularly focusing on **next-sequence generation** and its alignment with weight loss counseling goals.
- Teaching Assistant** at Wayne State University, Detroit, MI Aug 2024 - Apr 2025
- Conducted **interactive lab sessions** and **mentored students** by addressing challenges and enhancing their understanding of **Python programming** language.
- Software Engineer** at Cybage Software Pvt. Ltd., Pune, India Mar 2019 - Feb 2023
- Maintained a web-based tool supporting **1M+ active users** across **100+ countries**, achieving **99.9% uptime**.
 - Collaborated** with a **team of 5 engineers** across **5 product releases**, increasing project **performance** by **35%** via **code optimization**.
 - Integrated Synopsys Polaris to resolve **critical vulnerabilities** reducing **security risks** by **30%**.
 - Implemented enterprise solutions using **ASP.NET MVC**, improving system **scalability** by **25%** through **asynchronous programming**.
 - Mentored** junior team members, reducing onboarding time by 60% through **streamlined environment setup**.
 - Upgraded DLLs to **SHA256-signed versions**, enhancing system **security and reliability**.
 - Developed audit reporting module with **optimized MS SQL Server queries** reducing report generation time from **minutes to seconds**.
 - Streamlined** installation processes for development and release kits by introducing better testing protocols and working closely with teams, **cutting deployment errors** by **30%** and **speeding up releases** by **20%**

SKILLS

Python, C#, .NET, ASP.NET, PyTorch, Flask	Html, CSS, Javascript, ReactJs, NodeJs	Git, Docker, Jira, Azure, GitHub
Agile, CI/CD Integration	MySQL Server, SQL, MongoDB, DynamoDB, Neo4J, Hbase	ML & AI tools: PyTorch, FAISS, BM25, Neural Conversational Agents, LSTMs

EDUCATION

- Masters in Computer Science** Apr 2025
Wayne State University, Detroit USA, **CGPA: 3.90**
- Bachelors in Computer Science** Aug 2018
Priyadarshini College of Engineering, Nagpur, India, **CGPA: 9/10**
- PUBLICATION: "PCE College Enquiry Bot" International Journal of Innovations in Engineering and Science, Vol. 3, No.3, 2018

PROJECTS

- TrackLog-Healthcare Patient Management System** Jan 2025 – Apr 2025
- Developed a **full-stack web application** using **Flask, MongoDB, and React** for managing patient records
 - CRUD operations** for patient data.
 - Integrated **Aggregation pipeline in disease analytics** for efficient data processing.
 - Designed and deployed **RESTful APIs** to facilitate seamless frontend-backend communication.
 - Optimized **MongoDB queries** to enhance performance and scalability.
 - Deployed Frontend & Backend** – React frontend hosted via GitHub Pages, Flask backend deployed on Render.
- Neural Conversational Agent for Automated Weight Loss Counseling** Jun 2025
- Contributed in Code refactoring of full-stack AI counseling system** (React + Flask) for weight loss counseling in an **NIH-funded study with 40+ patients**.
 - Refactored **front-end React components**, improving UI performance and maintainability.
 - Working on including **BM25 + FAISS hybrid retrieval**, boosting counseling response accuracy significantly
- LSTM Text Generator (PyTorch, NLP Project)** Jul 2025
- Implemented a **word-level LSTM model** with embeddings, 2 stacked LSTM layers, and dropout for **next-word prediction**.
 - Achieved **>90% training accuracy** after 50 epochs.
 - Built a text generation pipeline to produce **coherent narrative/poetic outputs** from seed phrases.
 - Visualized training loss trends with **matplotlib** for model interpretability.