

SANYAM WADHWA

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EDUCATION

Thapar Institute of Engineering and Technology

August 2023 – Present(Expected 2027)

B.E. Computer Engineering

Patiala, Punjab

- Current CGPA: 8.34

TECHNICAL SKILLS

Languages: C, C++, HTML/CSS, JavaScript, PHP, Python, SQL

Frameworks/Libraries: Bootstrap, Flask, Node.js, React.js

Machine Learning/AI: AI Automations, Agentic AI, Generative AI, OpenCV, RAG, Transformers

Databases/Tools: AWS, Git, Linux (Bash), MongoDB, MySQL, phpMyAdmin, PostgreSQL, Postman

Coursework: AI, DBMS, Data Structures, Design & Analysis of Algorithms, OOPS, OS

EXPERIENCE

COE-UQ, TIET

June 2025 – January 2026

Student Intern

On Site

- Built hybrid **agentic mental-health chatbot** with modular agents (safety, emotion, sentiment, trend), orchestrated via a **Controller LLM** with **deterministic routing** and guardrail enforcement.
- Implemented **responsible AI mechanisms** including safety filters, risk-aware escalation, and prompt constraints, improving **reliability, ethical compliance, and response stability** under sensitive scenarios.

TIET, Patiala

February 2025 - November 2025

Student Intern

On Site

- Engineered a full-stack Thapar Datesheet Generator using **Flask, MySQL, and Jinja**, integrating **multithreading** to automate end-to-end schedule generation and reduce processing time by **3x** compared to legacy workflows.
- Incorporated features like **subject swapping, room swapping**, and real-time resolution of **room, faculty, and seating constraints**.

PROJECTS

FlowSync | AWS Bedrock, Lambda, DynamoDB, RAG, TypeScript, Python

March 2026

- Engineered an **AI project memory system** for coding agents using **Model Context Protocol (MCP)**, enabling persistent context, semantic search, and branch-aware state retrieval.
- Built a **VS Code extension + MCP server** supporting context logging, project indexing, and real-time change tracking across repositories.
- Designed an **event-driven AWS pipeline** (Bedrock + Lambda) to extract decisions, risks, and tasks from git diffs, with **branch-aware RAG** and DynamoDB caching achieving **1.26s median latency**.

KONTA – Context-Aware Browsing Extension | TypeScript, React, Plasmo, Transformers.js, TailwindCSS

January 2026

- Built a **Chrome extension for personal knowledge management** that captures browsing sessions and clusters related webpages using a **session detection and project inference pipeline**.
- Implemented **multi-layer retrieval** combining keyword search, semantic embeddings, and ML-based ranking for context-aware discovery of past browsing resources.
- Developed an **interactive knowledge graph interface** using **Louvain Algorithm** to visualize relationships between webpages and projects for intuitive exploration of saved knowledge.

POSITIONS OF RESPONSIBILITY

Event Management and Technical Coordinator

August 2023 - April 2025

Microsoft Learn Student Chapter

Patiala, Punjab

- Led a team of 10+ members, contributing to open-source projects and chapter initiatives.
- Spearheaded the development of the **Homepage** and **Events Page** for **MLSCTIET**, enhancing user engagement and accessibility, leading to a **significant increase in site traffic**.

ACHIEVEMENTS

Winner

March 2026

Samsung PRISM Web Agent Hackathon

Patiala

Winner

November 2023

Robowars, Saturnalia, Thapar Institute of Engineering and Technology

Patiala