YASHOVARDHAN TIWARI

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EDUCATION

Vellore Institute of Technology, Bhopal   **2022 - 2026**
B.Tech in Computer Science and Engineering — CGPA: 8.08   *Madhya Pradesh, India*

TECHNICAL SKILLS

- **Languages:** Python , Java, Web3, SQL
- **ML/DL Frameworks:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, LangChain, LlamaIndex
- **Cloud & Tools:** AWS (EC2, S3), Docker, Git, Hugging Face, LLMs, MLOps, Jupyter, VS Code
- **Java Technologies & Frameworks:** Core Java, Servlets, JSP, JDBC, Spring Boot, Hibernate
- **Databases:** MySQL, PostgreSQL, MariaDB, MongoDB
- **Core Competencies:** Data Visualization, Statistical Analysis, Complex Problem-Solving

PROJECTS

AI Agent for task Automation | Python, LangChain, FastAPI Hugging Face, Redis,

- Engineered an autonomous multi-step AI agent that automates research, summarization, and report generation workflow with >85% accuracy
- Integrated LangGraph and LangChain for structured reasoning, contextual memory, and dynamic tool calling.
- Deployed the services via FastAPI + Docker, achieving 40%+ faster inference latency through optimized caching in Redis.

Task Management System | Java, Servlets, JSP, JDBC, Tomcat, MySQL

- Developed a full-stack task management system, handling all backend CRUD operations via JDBC and designing a streamlined JSP front-end for efficient task tracking.
- Engineered the database schema and servlet logic to manage 100s of concurrent tasks and users effectively.
- Improved user engagement and completion rates by 32%.

AI Fashion Stylist -STYLICA | Generative AI, Hugging Face Transformers, PyTorch, YOLO

- Fine-tuned and integrated a Google ViT model (Slick-101) for clothing classification, achieving 90%+ accuracy on a custom-labeled dataset.
- Engineered an image analysis pipeline for background removal and color extraction, generating 100+ new outfit combinations from existing wardrobes.
- Utilized a Transformer architecture to generate unique, context-aware fashion advice, contributing to sustainable fashion goals.

ACHIEVEMENTS & EXTRA-CURRICULARS

- Achieved a global rank of 10235 in **TCS CodeVita Season 12**, advancing to the second round (Nov 2024).
- Senior Member of the university's **Drama Club**, actively participating in various productions and events.

CERTIFICATIONS

- OCI AI Foundations — Oracle (Sept 2025)
- Generative AI Professional — Oracle (Oct 2025)
- Machine Learning Specialization — Coursera (Andrew Ng, Stanford) (Dec 2023)
- Deep Learning Specialization — Coursera (Andrew Ng, DeepLearning.AI) (Mar 2024)