

Muskan Kumari

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EDUCATION

Thapar Institute of Engineering and Technology

B.E. in Computer Engineering – Specialization in Data Science, NLP & Generative AI

Patiala, Punjab

Sep 2022 – June 2026

EXPERIENCE

Rivet Technologies Pvt. Ltd. (Atlanta, USA)

Jan 2026 – June 2026

Software Engineer Intern

Bangalore, India

- One of **5 engineers on the founding engineering team**; built **analytics dashboards** and financial-operations features on a fintech collaboration platform, working with structured transaction and workflow data across treasury and account-management modules.
- Implemented REST APIs and backend logic (Next.js, TypeScript) powering data-driven features for messaging, workflow automation, and transaction-management systems.
- Owned analytics and financial-operations features end-to-end – from design through production deployment – in an agile process with product and design.

Rivet Technologies Pvt. Ltd. (Atlanta, USA)

June 2025 – July 2025

Software Engineer Intern

Gurugram, India

- Built **20+ reusable React/Next.js components** for banking, payments, and treasury workflows, supporting data-heavy MVP features across financial modules.
- Integrated API-driven data flows into frontend components, collaborating directly with backend engineers in an agile environment.

PROJECTS

ArtFinder: RAG-based Market Intelligence Platform | LangChain, Python, OpenAI, FAISS, Streamlit

- Engineered a retrieval-augmented generation (RAG) pipeline using **OpenAI embeddings** and **FAISS approximate-nearest-neighbor search**, cutting manual competitor-research time by **80%** and generating market-strategy outputs in under **3 seconds**.
- Built a data-cleaning and vectorization pipeline that reduced a 43K-row e-commerce dataset to 17K high-quality embedding vectors, improving retrieval precision and cutting hallucinated outputs by over **90%**.

Smash-X: AI-Powered Badminton Analytics System | PyTorch, OpenCV, YOLOv5, MediaPipe, Flask, PostgreSQL

- Trained and deployed computer-vision models (**YOLOv5 + ByteTrack, MediaPipe**) for real-time shuttle tracking and posture analysis, achieving sub-**0.5%** error in shuttle detection and **95%+** accuracy in posture evaluation.
- Built real-time analytics dashboards for match performance and training insights, enabling automated scoring and a **20%** improvement in decision speed and consistency.
- Integrated the Google Gemini API to auto-generate narrative coaching reports from structured match data, automating a previously manual reporting workflow.

RideHive: Full-Stack Carpooling Platform | Next.js, Node.js, MongoDB, WebSockets

- Designed and deployed a full-stack ride-sharing platform serving **500+ students**, implementing a cost-splitting algorithm and real-time WebSocket notifications that cut commute costs by **30%** and reduced manual billing errors by **25%**.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript, C/C++

ML & DL: NumPy, Pandas, scikit-learn, XGBoost, LightGBM, PyTorch, TensorFlow, OpenCV, Hugging Face

Generative AI & NLP: LangChain, LangGraph, OpenAI API, RAG, Prompt Engineering, FAISS, Vector Embeddings

Data Analytics & Visualization: Data Cleaning & Preprocessing, Exploratory Data Analysis (EDA), Feature Engineering, Statistical Modeling, Data Visualization, Matplotlib, Streamlit, Tableau, Power BI

Core CS: Data Structures & Algorithms, Object-Oriented Programming, DBMS, System Design

Databases: MongoDB, MySQL, PostgreSQL

MLOps & Deployment: FastAPI, MLflow, Weights & Biases (W&B), Docker

Tools: Git, GitHub, Jupyter Notebook, Google Colab, VS Code, AWS, GCP

LEADERSHIP & ACHIEVEMENTS

Student Placement Representative, TIET Placement Cell | Streamlined shortlisting and interview logistics for 30+ recruiters and 1000+

Level SuperMind Hackathon | *Finalist, Generative AI Track*

Jan 2025

SatHack Hackathon (NVIDIA) | *1st Place, Edge AI Track*

Nov 2024