

# KHUSHI TRIPATHI

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## Education

<b>VIT Bhopal University</b> BTech Computer Science Engineering with spec. in E-Commerce Technology Cumulative GPA: 8.85/10	Bhopal, Madhya Pradesh 2022-2026
<b>Dr. Virendra Swarup Education Center Panki</b> CBSE Class XII - 89% CBSE Class X – 95%	Kanpur, Uttar Pradesh July 2022 July 2020

## Technical Skills

**Languages:** C++, Python  
**Web Technologies:** HTML, React.js, Node.js, Next.js, TailWind CSS  
**Databases:** MongoDB, SQL, MYSQL  
**Other:** Machine Learning, Power BI, Data Analytics

## Projects

### Page Pilot: Personalized Book Recommendation System(Python, MongoDB, SQL) Aug-Sep 2024

- Engineered a **hybrid recommendation system** combining **collaborative filtering (user-based)** and **content-based filtering** (genre/author similarity) to enhance personalization.
- Performed **data preprocessing & feature engineering** (TF-IDF, cosine similarity) to improve recommendation relevance, achieving a 35% boost in accuracy.
- Built a scalable backend (**Python + MongoDB**) with optimized queries and deployed a responsive **ReactJS frontend** for seamless UX.

### SpendSmart: Personal AI Expense Tracker(Node.js, React.js MongoDB) Feb-May 2024

- Developed a **real-time expense tracker** with **predictive analytics** (trend analysis, budget forecasting) using Node.js & MongoDB.
- Designed **NoSQL schemas** with indexed fields to accelerate query performance for transaction history.
- Created an **interactive React dashboard** with visualizations (charts, spending trends), reducing user onboarding time by **40%**.

### Food and Beverages Sales Analysis(Python, Power BI) March-May 2025

- Developed a **Power BI dashboard** to analyze food & beverage sales data, leveraging **Python (Pandas)** for cleaning and EDA to identify top-performing categories, sales trends, and revenue drivers.
- Created interactive visualizations to highlight key insights, enabling data-driven decisions on inventory, promotions, and sales strategies.
- Proposed future enhancements like **predictive modeling (ML)** and real-time data integration to optimize forecasting and customer segmentation.

## Extracurricular Activities

### Design Team Lead (E Commerce Club) Dec 2022- Dec 2024

- Led design initiatives increasing club engagement by 40% through cohesive visual branding
- Mentored junior members in design principles and collaborative workflows

### Design Team Lead (Cisco Community VITB) Nov 2023 – Dec 2024

- Directed visual campaigns meeting strict quality standards and deadlines
- Implemented creative design strategies improving visual impact by 30%

## Certificates & Achievements

- Foundation Of Digital Marketing and E-Commerce, **Coursera** (Nov- Dec 2023)
- Devops and Agile Methodologies, **IBM**
- E- Supply Chain Management, **NPTEL**
- National Semi-Finalist in **FlipKart Grid 7.0**