

# Utkarsh Wagh

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## EDUCATION

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### VIT Bhopal University

May 2026

*B.Tech. Computer Science & Engineering*

## SKILLS

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**Data Science & AI:** Machine Learning (Regression, Classification, Clustering), Generative AI (LLMs, Prompt Engineering), Responsible AI (Bias Detection, Explainability – SHAP/LIME), Intelligent Agents (LangChain, LangGraph)

**Programming & Tools:** Python (Pandas, NumPy, Scikit-learn, PyTorch), SQL (MySQL, PostgreSQL), APIs & Automation, Git, Streamlit, FastAPI

**Cloud & Big Data:** AWS, GCP, Databricks, Snowflake, Spark, Data Warehousing, ETL Pipelines, Scalable ML Workflows

**Analytics & Visualization:** Power BI, Tableau, Data Storytelling, Visual Analytics for Consumer & Market Insights

## EXPERIENCE

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### AI-Powered Morning Brief Voice Assistant for Traders

- Developed a voice-enabled AI assistant to deliver daily market briefings, reducing manual market research time by 60% for traders.
- Integrated multiple intelligent agents to retrieve, clean, and summarize real-time financial data from news websites, earnings reports, and APIs, processing 100+ data points per session.
- Built an analytics agent to generate actionable insights, forecasts, and key KPIs, enhancing decision-making speed and accuracy.
- Designed a Streamlit + FastAPI interface for interactive usage, including Text-to-Speech voice output, supporting hands-free market updates for end users.
- Implemented Python (Pandas, NumPy, LangChain) pipelines to automate data aggregation, analysis, and reporting, improving workflow efficiency by 50%.

## PROJECTS

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### Marketing Mix Modeling & ROI Optimization

- Developed a marketing mix model using regression and time-series techniques to quantify digital vs. offline channel impact on revenue.
- Optimized marketing spend allocation, projecting a 12–15% uplift in ROI.
- Implemented causal inference to validate results, ensuring actionable and reliable recommendations.
- Delivered insights via interactive dashboards enabling “what-if” scenario analysis for business teams.

### E-Commerce Pricing Intelligence & Demand Forecasting

- Built dynamic pricing models leveraging competitor prices, product features, and demand elasticity, improving margin by 10%.
- Forecasted demand for 500+ SKUs using ARIMA and Prophet, reducing stockouts and overstock risk.
- Applied human-in-the-loop validation with business experts to refine model assumptions and enhance adoption.
- Designed automated ETL pipelines for large-scale product and pricing datasets, ensuring scalability and reliability.

## EXTRA-CURRICULAR

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### Team Lead, MUN Club, VIT Bhopal

- Managed event timelines and team assignments while ensuring smooth operations during five different conferences, contributing to an impressive total attendance growth exceeding 200 participants year-over-year.
- Conceptualized and Proposed visually compelling content to captivate audiences, encourage active participation, and enhance overall user engagement.

### Certifications

- IBM Data Science Professional Certificate (Coursera) – Covers Python, Pandas, NumPy, Data Visualization, and Machine Learning basics.
- Google Bits and Bytes Certificate – Fundamentals of digital tools, cloud, and AI literacy.