

# Bharti Kumari

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## Education

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VIT Bhopal University, Madhya Pradesh

BTech- Computer Science Engineering| CGPA: 8.5/10 (Expected May 2026)

## Experience

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### Woodman Electronics | (Oct 24- Jan 25)

(Python, SQL, Power BI, Power Query)

- Cleaned and analysed 6 months of customer sales and product data (~10,000 records) using SQL and Python, identifying top 10 products responsible for 35% of revenue and seasonal trends impacting sales.
- Built interactive Power BI dashboards to track KPIs like monthly sales, customer segmentation, and inventory levels, reducing manual reporting time by 20% for the management team.
- Conducted cohort and retention analysis on 5,000+ customers, identifying at-risk segments and enabling targeted promotional campaigns, which led to a 7% uplift in repeat purchases over 2 months.

## Projects

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### Bank Lending Risk Analytics Platform | (Sep 24- Dec 24)

(Excel, Power BI, Python(Numpy, Pandas), MySQL, React)

- Processed 2,000+ customer profiles, 5K+ transactions, and 10K loan records, engineering 10+ risk factors that identified high-risk borrowers and reduced potential defaults by 10–12%.
- Optimised MySQL queries and Python pipelines for faster risk scoring, reducing processing time by 30-40% and helping mitigate financial exposure.
- Built dashboards in Power BI and Excel to track KPIs such as repayment trends, credit utilisation, and delinquency, improving loan approval efficiency by 10% and repayment monitoring by 15%.
- Added a minimal React UI for quick, browser-based access to key risk scores.

### Customer Churn Prediction & Analysis | (Jan 25- March 25)

(Python (Pandas, Scikit-learn), SQL Server, Power BI, Flask)

- Processed 7,500+ customer records, fixing 250+ data issues and standardising 30+ columns for ETL.
- Engineered 20+ predictive features in Python, including age/tenure buckets and 15 categorical encodings, preparing dataset for Random Forest modeling.
- Trained Random Forest with 50 trees, achieving 85% accuracy and correctly predicting 1,450+ high-risk churners.
- Added a lightweight Flask API for predictions and built 12 Power BI dashboards for targeted retention

### Healthcare Chatbot | (Feb 25 – Jun 25)

(Python, PyTorch, SpaCy, GPU, React)

- Built a healthcare chatbot with a knowledge base of 35+ conditions and 120+ treatment responses.
- Trained an NLP model with PyTorch and SpaCy preprocessing, reaching ~80% intent accuracy.
- Improved classification by 15% through refined preprocessing and tokenisation.
- Added a lightweight React UI and a simple backend API to serve model responses, with GPU acceleration cutting training time by 40%.
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## Skills

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- **Languages:** C++(STL, OOP, Data Structures & Algorithms), SQL
- **Data & ML:** Pandas, NumPy, Scikit-learn, PyTorch, SpaCy
- **Web & Dev Basics:** React.js (components, state basics), Flask (simple APIs), MySQL/SQL Server — entry-level development exposure.
- **Software Practices and Tools:** Basic SDLC understanding, version control with Git, Jupyter, Power BI, Excel, Jira.

## Extracurricular

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### Insights Club (Journalism) | (Jun 23 - Jun 24)

- Editor for the university's renowned Insights Newsletter.
- Researched and wrote 15+ articles per month about 100+ college events by collaborating with about 30 other clubs, also promoting their upcoming events.

## Certification

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Oracle Cloud Infrastructure 2025 Data Science Professional | (Sep 25)