

Bharti Kumari

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Education

VIT Bhopal University, Madhya Pradesh

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

Projects

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

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

- Developed a lending risk analysis platform using Python, MySQL, Excel, and Power BI, processing 2,000+ customer profiles and 5K+ transactions.
- Cleaned and preprocessed 10K loan records with Pandas, NumPy and Excel, engineered 10+ risk factors, helping identify high-risk borrowers and reducing potential defaults by 10–12%.
- 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%.
- Optimised MySQL queries and Python pipelines for faster risk scoring, reducing processing time by 30-40% and helping mitigate financial exposure.

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

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

- Processed 7,500+ customer records in SQL Server, handling 250+ null/duplicate values and standardising 15+ columns for ETL pipeline.
- 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 60% accuracy, 61% precision, 65% recall, and correctly predicting 1,450+ high-risk churners.
- Built interactive Power BI dashboards covering demographics, contract types, services, and predicted churn, enabling 20% improvement in targeted retention campaigns for 7,500+ customers.

Chikitsak -Healthcare Chatbot | (Feb 25 – Jun 25)

(Python, PyTorch, SpaCy, Hugging Face, GPU)

- Implemented chatbot knowledge base with 35+ diseases and 120+ treatment suggestions for common and mild health issues.
- Trained basic NLP classification model (PyTorch +SpaCy) achieving around 75–80% accuracy.
- Integrated **Hugging Face Inference API** for transformer-based embeddings, improving intent classification accuracy by ~15% after pipeline optimization.
- Optimised training and inference with GPU acceleration, reducing model training time by 40%.

Skills

- **Languages:** C++(STL, OOP, Data Structures & Algorithms), SQL
- **ML & Data :** Python (NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch, Spacy, NLP, Hugging Face API)
- **Visualisation & BI:** Power BI, Power Query, DAX, Excel (Pivot Tables, Macros)
- **Web & Tools:** MySQL Workbench, Flask, Jupyter Notebook, Git

Experience

Business Data Analyst Intern – 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 Libraries, identifying top 5 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, enabling targeted promotions and contributing to a ~7% increase in repeat purchases.

Extracurricular

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

Actuarial Analyst Job Simulation at [AIG](#) (Oct 25)