

Bharti Kumari

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I work at the intersection of data, ML, and QA — validating pipelines, checking model behavior, and catching inconsistencies long before they show up in dashboards or decisions. I'm the person who digs into SQL logs, edge cases, and weird patterns until the system starts making sense. If something's off, I usually find it.

Education

VIT University, Bhopal

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

Professional Experience

Business Data Analyst Intern – Woodman Electronics | (Oct 24 – Jan 25)

Python, SQL, Power BI, Power Query, Jira, Data Validation, QA

- Cleaned and validated ~10K sales and product records using SQL and Python libraries, catching data issues early.
- Built Power BI dashboards and verified KPI accuracy, cutting reporting time by 20%.
- Ran cohort and retention checks on 5K+ customers, helping boost repeat sales by ~7%.
- Used Jira to track tasks and log data discrepancies for quick resolution.

Projects

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

Python, MySQL, Power BI

- Cleaned and validated 10K+ loan records to ensure the risk model was working with accurate, trustworthy inputs.
- Built dashboards for repayment trends, credit use, and delinquency so stakeholders could spot risky borrowers faster.
- Optimized MySQL queries and Python data-processing pipelines (ETL scripts, feature calculations, validation checks), cutting risk-scoring time by 30–40% and speeding up loan decisions.

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

Python, Scikit-learn, SQL Server, Power BI

- Processed and validated 7,500+ customer records in SQL Server, fixing nulls/duplicates and standardizing 15+ fields for a reliable ETL pipeline.
- Engineered 20+ predictive features (buckets, encodings, derived metrics) to give the model cleaner, more meaningful inputs.
- Trained a Random Forest (50 trees) hitting 85% accuracy with strong recall, correctly identifying 1,450+ high-risk churners.
- Built dashboards showing churn patterns across demographics and contracts, helping improve targeted retention efforts by ~20%.

AI Response Testing for Healthcare Chatbot | (Feb 25 – Jun 25)

Python, NLP, Testing, Validation, Hugging Face

- Designed and tested a medical Q&A chatbot, validating responses across 35+ conditions and 120+ treatment scenarios.
- Reviewed and corrected misclassified intents, documenting edge cases and improving response accuracy through iterative testing.
- Integrated Hugging Face embeddings and verified model behavior across multiple input variations, reducing false responses by ~15%.
- Benchmarked and optimized inference performance using GPU runs, speeding up test cycles and improving reliability by ~40%.

Web App Testing Suite | (Personal Project)

Selenium (Basic), Manual Testing, SQL, Python, Jira

- Logged 5+ reproducible defects in Jira with clear steps, severity, and evidence.
- Built 4–5 basic Selenium scripts for quick sanity checks (login, navigation, element visibility).
- Verified 3 key backend tables (users, carts, transactions) using SQL to confirm UI accuracy.

Skills

Testing & QA: Manual Testing, Functional Testing, Regression Testing, Exploratory Testing, Test Case Design, Test Execution, Defect Tracking, Jira, Selenium (Basic), QA Documentation, ETL Testing, Data Validation, Dashboard Validation

Languages: SQL, Python, C++

Tools: Power BI, Power Query, MySQL Workbench, Jupyter Notebook, Git

Data: Pandas, NumPy, Scikit-learn, Data Cleaning, Schema Validation, Feature Verification

Other: Basic Automation Scripts, API Testing (intro), Performance Checks

Certification

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

Completed hands-on simulation involving data validation, risk assessment, and analytical problem-solving aligned with real-world actuarial workflows.

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.