Mayur Bharambe

Education

VIT Bhopal University — Bhopal, India
B.Tech in Computer Science Engineering; CGPA: 8.53 — *Aug. 2022 – Mar. 2026*

Matoshri Jr College Eklahare — Nashik, Maharastra
12th Standard; Percentage: 75.83% — *September 2022*

S.D.A Higher Secondary School — Lasalgaon, Maharastra
10th Standard; Percentage: 84.16% — *July 2020*

Technical Skills

Languages: Java, C++, Python, SQL
Database: MySQL

Projects

XML to MySQL ETL Automation – ongoing

- Developed a Java application to automate the conversion of an XML catalog file to a MySQL database using JDBC.
- Designed and implemented schema and table creation scripts for the MySQL database (`Catalog| table with columns: Title, Artist, Country, Company, Price, Year).`
- Engineered an XML-to-CSV data transformation pipeline that reads `<Cd>| entries from XML and outputs structured CSV files.`
- Automated database population by parsing CSV files and inserting data into the MySQL table using JDBC.
- Created a Windows batch file (`.bat|) to execute the entire ETL process from the command line, including dynamic input handling and logging.`
- Technologies used: Java, JDBC, MySQL, XML/CSV Conversion.

Database Query Executor Tool

- Built a command-line tool to execute SQL queries from a file and export results to downloadable CSV/Excel formats
- 360-Degree Street View: High-resolution panoramic images covering 16 campus locations
- Designed database schema with normalized tables (Employee Details and Department) linked using foreign keys.
- Developed a .bat script to automate query execution by accepting file inputs and managing outputs.
- Implemented JDBC for database connectivity and data extraction, ensuring robust query execution
- Created an organized directory structure for inputs, logs, and outputs for seamless usage.
- Technologies used: Java, JDBC, MySQL, XML/CSV Conversion.

JSON Tree Viewer

- Developed a Java application that reads a JSON file and converts it into a tree data structure, preserving the hierarchical structure of the JSON data
- Implemented recursive algorithms for parsing nested JSON objects and building a dynamic tree model.
- Enabled visualization of complex JSON structures in a tree format for easier data analysis and debugging.
- Technologies used: Java, JSON parsing, Tree data structures

Skills and Certifications:

Languages: English (Fluent), Hindi (Native), Marathi(Native), Reading Proficiency in Korean.
Soft Skills: Communication, Teamwork, Problem solving, Leadership, Adaptability
Certifications : The Bits and Bytes of Computer Networking (Coursera) -Dec 2023. Cloud Computing (NPTEL) -Apr 2024. Python Essentials (VITyarthi) -May 2023.
Hobbies: Playing Guitar, Speed-Cubing