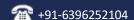# CHELSI VARSHNEY

- Information Technology graduate with expertise in software testing, data analysis, and automation.
- Proficient in Python, Java, SQL, and Advanced Excel for data manipulation and system optimization.
- Hands-on experience in retail engineering and safety at Hindustan Petroleum Corporation Limited, managing databases for 2,604 outlets, automating data quality audits, and optimizing operational efficiency.
- Worked as a Software Tester at Synopsys Pvt. Ltd., gaining expertise in debugging, system integration, and Linux-based testing environments.
- Experience in ETL pipelines, database management, and automation tools for enhanced data accuracy.
- Developed interactive web applications and games using HTML, CSS, JavaScript, and Pygame.
- Strong problem-solving skills, debugging expertise, and ability to deliver high-quality solutions in fast-paced environments.

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EXPERIENCE

APPRENTICE- Retail Engineering & Safety
Hindustan Petroleum Corporation Limited — 01 April 2024 – 31 Mar 2025

- Managed and optimized databases for 2,604 outlets across 8 regions using Advanced Excel and SQL to ensure operational efficiency.
- Designed and maintained ETL pipelines to extract, clean data from automation systems, including FOIR, Connectivity, and interlock systems.
- Implemented data validation processes to detect anomalies and enhance data accuracy, reducing operational errors.
- Automated periodic data quality audits and performance reports, ensuring seamless communication across business units.
- Utilized Python and SQL to analyze large datasets, enabling data-driven decision-making and improving overall performance metrics.

INTERN- Software Tester
Synopsys Pvt. Ltd. — 25 July 2023 -11 Nov 2023

- Completed a **3-month internship** as a **Software Tester**, gaining hands-on experience in software testing and quality assurance.
- Worked with **complex systems**, focusing on design, development, and integration throughout the project lifecycle.
- Utilized **Linux OS** extensively for testing and debugging, enhancing expertise in operating system-level functionalities.
- Collaborated in testing processes to ensure system functionality, performance, and reliability.
- Enhanced skills in **system analysis** and problem-solving within dynamic project environments.

PROJECTS

Portfolio Website

- Designed and developed a responsive **portfolio website using HTML, CSS, and JavaScript.**
- Showcases **personal details, skills, experience**, and projects in a structured format.
- Integrated smooth scrolling and hover animations for an enhanced user experience.
- Added a resume download feature for easy access to the candidate's CV.
- Optimized for desktop and mobile devices to ensure a seamless browsing experience.

Car Racing Game

- Developed an interactive car racing game **using Python and Pygame** with real-time obstacle generation.
- Implemented keyboard controls for **smooth car movement and collision detection** for game-over scenarios.
- Designed an increasing difficulty system, where obstacles speed up as the score increases.
- **Integrated score tracking and UI elements** for an engaging user experience.
- Optimized performance with efficient event handling and rendering techniques.

EDA on Game of Thrones Data

- Conducted **Exploratory Data Analysis (EDA)** on Game of Thrones data to uncover insights and trends.
- Utilized **Python libraries** such as NuPIC, Ramp, NumPy, Pipenv, and TensorFlow for efficient data manipulation and analysis.
- Developed a **Moviepy Python module-based GIF creator**, showcasing advanced functionality in Python scripting.
- Implemented workflows to **import and integrate the Moviepy module** into the codebase for seamless GIF creation.
- Explored additional features of the module for **video editing and composite video creation**, enhancing the project scope.

Automated Data Quality Monitoring System

- Developed a **Python-based automation tool** to validate and monitor data quality for large datasets.
- Implemented ETL processes, anomaly detection, and automated report generation **using Pandas and SQL.**
- Enhanced system efficiency by automating email notifications for critical data quality issues.
- Improved **data consistency by identifying and correcting inconsistencies** across multiple data sources.

EDUCATION

Bachelor in Information Technology — 2020-2023
Aligarh College of Engineering and Technology with 85%

Diploma in Electronics Engineering — 2017-2020
Janta polytechnic, Jahangirabad Bulandsahar with 81%

TECHNICAL SKILLS

HTML | CSS | JavaScript | Python | Database Management (SQL) | Advanced Excel