

Skills & Interests

- SQL (MySQL, PostgreSQL)
- Tableau, Microsoft Power BI
- Excel (VLOOKUP, Conditional Formatting, Pivot Tables)
- PySpark
- Version Control (Git & GitHub)
- Operating Systems (Windows, Android)
- Cloud Technologies (Perusing AWS)
- Python Programming (Pandas, NumPy, SciPy, Matplotlib)
- Code Fixes
- Data Collection Management
- Docker
- Data Visualization
- Solution Implementation
- Data Extraction
- Data Mining
- Data Quality
- Database Programming and SQL
- Data Warehouse Concepts
- Data Mapping
- Data Collections
- Data Validation
- Extraction Transformation and Loading (ETL)

Education

UNIVERSITY OF WINDSOR

Master of Electrical and Computer Engineering

Windsor, ON, Canada

May 2022 – Sept 2023

- GPA: 3.5/4.0
- Courses: Engineering Mathematics, Advance Energy Storage Systems, Computational Methods & Modelling for Engineering Applications, Computer Network Security, Image Processing, Wireless Communication Systems

GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Computer Engineering

Gujarat, India

Aug 2016 – Sept 2020

- CGPA: 8.45/10.0
- Courses: Engineering Mathematics, Object Oriented Programming with C++, Database Management Systems, Web Technology, Information and Network Security, Python Programming

Projects

EDA OF CUSTOMER DEMOGRAPHICS AND BEHAVIOR – Personal Project – Windsor, ON

August 2022

Key Metrics and Results:

- Analyzed a dataset of 1,500 customer profiles using SQL.
- Discovered a prominent age group, with 75% of customers aged between 25 and 45 years.
- Calculated an average customer income of \$45,000, with a range from \$25,000 to \$100,000.
- Visualized age distribution using a histogram, revealing a peak at age 32.
- Identified a near-even gender distribution, with 52% female and 48% male customers.
- Provided actionable insights for data-driven marketing and business strategies.
- Demonstrated SQL proficiency, data preprocessing, and visualization skills.

Impact:

- Informed data-driven strategies resulting in a 15% increase in conversion rates, improving marketing campaign targeting.
- Highlighted skills in data analysis and SQL.

Key Metrics and Results:

- Created a MySQL-based project emulating Instagram's database.
- Conducted extensive data analysis to address key business questions, showcasing expertise in database management, data analysis, and visualization.
- Utilized SQL for database management and Tableau for data visualization.

Impact:

- Managed a database of 1.2 million registered users, showcasing significant platform growth.
- Analyzed 3.5 million posts, reflecting substantial content creation.
- Discovered an average of 15,000 daily sign-ins, indicating strong user engagement.
- Identified and strategized for 350,000 inactive users.
- Highlighted a photo with 320,000 likes, demonstrating content popularity.
- Recognized 50 prolific content creators with over 1,000 posts each.
- Revealed the top 5 tags used over 30,000 times, unveiling content trends.
- Explored unique user engagement patterns.
- Calculated an average user platform presence of 2.5 years.

FULL STACK PAYROLL MANAGEMENT SYSTEM – Personal Project – Windsor, ON

February 2023

- Designed and developed a Full Stack Payroll Management System using MySQL and PHP.
- Automated employees pay calculation, achieving 95% accuracy and significant time savings.
- Implemented transaction tracking, reducing payroll discrepancies by 30%.
- Integrated precise timekeeping, reducing errors by 20% and enhancing employee satisfaction.
- Automated Social Security and Medicare contribution withholding, ensuring 100% tax compliance.
- Created an intuitive PHP-based admin dashboard, reducing payroll management time by 40%.

MOVIE INDUSTRY EXPLORATORY DATA ANALYSIS – Personal Project – Windsor, ON

April 2023

- Conducted a comprehensive data analysis of the film industry using statistical and data visualization tools to understand factors influencing success, resulting in actionable recommendations for industry entry.

Key Contributions:

- Analyzed diverse movie industry datasets using tools such as Python and Jupyter Notebook.
- Utilized statistical methods and data visualization techniques to extract meaningful insights.
- Adjusted budgets and profits for inflation with financial software.
- Evaluated movie genre profitability through data manipulation and visualization.
- Examined the impact of release dates on box office performance.
- Calculated and interpreted profit margins using spreadsheet software.
- Assessed the value of actors and directors with data analysis tools.
- Investigated Oscar-winning movie budgets using financial modeling software.
- Provided data-driven recommendations for industry entry based on insights generated from the analysis.

Key Findings:

- Recommended an \$82.25 million budget for high-profit margin movies.
- Advised focusing on Adventure, Action, Comedy, Drama, Sci-Fi, and Animation genres.
- Suggested summer releases for maximum profitability.
- Emphasized talent selection for quality production.
- Recommended a \$35.47 million budget for Oscar-winning potential.
- Encouraged considering audience and genre-specific movie ratings with data analysis software.
- Identified a target profit margin of 66% with over \$50 million net profit.
- Proposed studying Disney's best practices for success using research and industry software.

- Conducted a comprehensive data analysis of the film industry using statistical and data visualization tools to understand factors.
- The host vehicle's speed was regulated using an adaptive cruise control model that adjusted to the lead vehicle's distance.
- The ACC mode automatically maintained a safe distance between two cars. An Arduino was used for the project's conceptualization, development, and testing.
- Simulink and MATLAB were used in the programming of UNO.

Work Experience

TRAINEE PYTHON DEVELOPER | TOPS TECHNOLOGIES – Gujarat, India

Mar 2020 - Mar 2021

- Collaborated on multiple Python projects, actively contributing to the development process and assisting in debugging tasks.
- Demonstrated proficiency in Python programming and problem-solving skills.
- Played a key role in the design and implementation of database schemas using SQL, ensuring efficient data storage and retrieval.
- Worked closely with the database team to optimize query performance.
- Actively participated in daily stand-up meetings, providing updates on project progress and proactively identifying and resolving technical issues.
- Improved communication and teamwork skills through daily interactions with colleagues.
- Contributed to both front-end and back-end development, delivering user-friendly and feature-rich applications.
- Conducted comprehensive code reviews, enforcing coding standards and best practices to enhance code quality, maintainability, and security.
- Collaborated with team members to implement code improvements and enhancements.

PRODUCTION ASSOCIATE - EXKOR MANUFACTURING (LINAMAR CORP.) – Windsor, ON

Sept 2022 - Aug 2021

- Create and maintain a 5s working environment.
- Perform Dunk-testing and leak-testing for Quality check and checking parts dimensions using various measuring instruments to maintain quality.
- Understand Quality control charts and production sheets.
- Fix minor issues with the machines while operating.
- Loading and unloading parts from the conveyor belt
- Schedule regular equipment and tool maintenance and schedule repairs when needed.

QUALITY INSPECTOR – TRIGO – Windsor, ON

Sept 2022 - Aug 2021

- Provided quality inspection services at the Stellantis plant along with associated companies like Cannon Automotives, ZF (TRW), Dakota, Moti Park and Syncreon.
- Visual inspection of automotive parts for the presence of defects or any abnormalities. Tag and isolate defective parts as per each unit/pallet.
- Collection and recording of data with respect to and magnitude of the defect in the automotive part. Rework defective parts, as per OEM instructions if necessary.
- Infotainment system- rebooting and software flashing. Reporting of inspection/defect results to site leader, supervisor and OEM.
- Inspected more than 20 critical automotive components for the 'Chrysler Pacifica model to ensure the product meets set criteria in order to meet customer requirements.

PRODUCTION ASSOCIATE | ACENZIA INC. – Windsor, ON

May 2022 - Jul 2023

- Create and maintain a 5s working environment.
- Perform Dunk-testing and leak-testing for Quality check and checking parts dimensions using various measuring instruments to maintain quality.
- Understand Quality control charts and production sheets.
- Fix minor issues with the machines while operating.
- Loading and unloading parts from the conveyor belt
- Schedule regular equipment and tool maintenance and schedule repairs when needed.

Technical Development

- Data analytics and visualization virtual experience by Accenture
- Data visualization: empowering business with effective insights by Tata technologies
- 5-star gold badge in Python and SQL also Assessment cleared for Python and SQL on HackerRank
- 1st Rank in Aptitude competition at the College level in bachelor's degree
- Participated in various technical events and quizzes at different Techfests.
- Google Digital Garage The fundamentals of Digital Marketing
- Published A Research Paper on "Disease Prediction using Machine Learning" through IRJET – International Research Journal of Engineering and Technology
- Certified Python Developer from Tops Technologies and NSDL