NISHIGANDHA PATEL

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TECHNICAL SKILLS

Programming Languages: C++, Java, Python, SQL, PL/SQL, TSQL, HTML, CSS, and UML.
Database: MySQL, Oracle, MongoDB, SQL Server, SSMS, SSRS, SSIS,
Reporting & Data Visualization: Tableau, Power BI, Advance Excel, Business Intelligence (BI), Sharepoint, Informatica.
Cloud & Big Data: AWS (S3, Redshift, Lambda), Google Cloud Platform (GCP), BigQuery, Dataproc, Hadoop.
Tools & Technologies: JIRA, Git, Agile Methodology, ETL, Eclipse, Visual Studio Code, Jupyter Notebook, PyCharm, VBA.
Skills: Data Cleaning, Data Wrangling, Debugging, Troubleshooting, Production Support, Critical Thinking, Effective Communication, Presentation, Problem-Solving.
Certification: Google Data Analytics, Python for Data Science by IBM

EDUCATION

Northeastern University | *Boston, MA*   May 2024
Master of Science in Information Systems
Awards: Student Employee of the Year Awardee

Savitribai Phule Pune University | *Pune, India*   Apr 2020
Bachelor of Computer Engineering

WORK EXPERIENCE

OSF Healthcare| *Data Engineer* **|** *Peoria, IL(Remote)*   Aug 2024 – Present
- Design scalable data architectures using GCP, BigQuery, and Dataproc for efficient healthcare rebate data analysis.
- Develop data pipelines for efficient rebate data transformations and integration into existing systems.
- Utilize SQL queries to manage, test, debug, and analyze data, improving query **efficiency by 25%**.
- Build Power BI dashboards for real-time rebate data visualization, enhancing decision-making and reporting.
- Implement data models and pipelines for complex **rebate calculations**, ensuring compliance with standards.
- Collaborating with stakeholders to align data strategies with business goals for rebate reporting.

Northeastern University | *Teaching Assistant (Database Management & Design)* **|** *Boston, MA*   Jan 2024 – Apr 2024
- Led SQL and database design sessions, helping students understand data integrity, normalization, and transaction management.
- Assisted over 100 students with practical database concepts, improving their **technical skills by 30%.**
- Facilitated hands-on exercises using SQL Server, Power BI, Microsoft Visio, and Draw.io for real-world problem-solving.
- Designed sample databases and queries to teach advanced SQL techniques, fostering analytical thinking.
- Reviewed and graded assignments, providing constructive feedback to improve student performance.

Zensar Technologies | *Software Engineer (Analyst)* **|** *Pune, India*   Dec 2020 – Aug 2022
Client – Assurant | Miami, FL
- Optimized SQL stored procedures, **reducing manual tasks by 65%** for critical operations affecting **over 100K devices**.
- Designed and maintained Power BI dashboards for real-time business metrics, streamlining reporting processes and **reducing generation time by 30%**.
- Leveraged Python for data transformation and analysis within ETL processes, improving data accuracy and reporting.
- Integrated transaction handling in SQL scripts to ensure data integrity, reliability, and accuracy for complex operations.
- Collaborated with cross-functional teams and stakeholders to resolve data discrepancies, improving data quality and compliance, resulting in a **50% reduction in data-related issues**.
- Performed root cause analysis on data anomalies using VLOOKUP and advanced Excel features for data analysis.

Tata Strive | *Intern* **|** *Pune, India*   Oct 2020 – Dec 2020
- Designed SQL structures using Java for an Android app in an Agile environment, **boost data storage efficiency by 30%**.
- Implemented RESTful APIs in Java, enhancing data exchange, and user interface while managing changes through git.
- Worked with UI/UX teams in Agile iterations, optimizing the app's user experience and data performance.
- Analyzed app usage and created Power BI dashboards, leading **15% improvement in user engagement**.
- Collaborated on designing the data architecture for the Android app, ensuring scalable and maintainable data models to support future app growth and data integration needs.

Vimta Labs | *Data Intern* **|** Hyderabad*, India (Remote)*   Jan 2019 – Oct 2020

- Implemented scalable data pipelines on GCP using BigQuery and Dataproc, **improved ETL processing times by 35%.**
- Designed data models to support healthcare **rebate** workflows, ensuring compliance with business needs and industry standards.
- Optimized large dataset queries in SQL, **achieving a 25% reduction** in query execution time for data analysis.
- Automated data transformation processes, improving efficiency and accuracy in reporting workflows.
- Collaborated with cross-functional teams to ensure alignment of data solutions with organizational goals and regulatory requirements.

ACADEMIC PROJECTS

Environmental Conservation Tracking System Database | *SQL server, Python, Power BI*   Oct 2023 – Dec 2023
- Centralized the Environmental Conservation Tracking System in SQL Server, bolstering data integrity with **triggers and joins by 30%**.
- Crafted a Python GUI using Streamlit and integrated Power BI for data visualization, optimizing conservation initiatives.
- Applied User Defined Functions, stored procedures, and regex expressions for streamlined data transformation and informed decision-making

Covid Testing and Vaccination Scheduler | *Java, Java Swing**, NetBeans, DB4O*   Sept 2022 – Dec 2022
- Developed a Healthcare system model with enterprise roles, patient records, scheduling, and CRUD operations, enhancing the registration process.
- Optimized the database with DB4O, achieving nearly **100% data accuracy**.
- Created a user-friendly GUI using Java Swing, improving application accessibility and enabling real-time interactions.

Smart Attendance System | *Python, MySQL, Haar Cascade Algorithm, Scikit-Learn*   Sept 2019 – Mar 2020
- Built attendance system using Image acquisition, Face Detection, Feature Extraction, and Face Recognition which helps to mark class attendance by capturing the image of the class using an android smartphone.
- Provided dataset to train application using best human strategy possible through teamwork in order to achieve **95% accuracy**.

PAPER PUBLICATIONS

- A Survey Paper on various Smart Attendance Systems (IJRASET | Volume 7 Issue: XI, Nov 2019, ISSN: 2321-9653)
- Implementation of Smart Android Based Attendance System Based on Face Recognition (IJSREM | Volume: 04 Issue: 09, Sept 2020, ISSN: 2582-3930)