Contact:

📱 8660432023

📧 Nikhilolivera1996@gmail.com

🔗 Linkedin.com/in/nikhil-olivera

Skills:

— Experienced in developing complex **SQL queries** for efficient data traction, transformation, and analysis.

— Hands-on experience in deploying and managing **PostgreSQL** databases on **AWS RDS** to store and process IoT sensor data.

— Programming Language | SQL, Python, PostgreSQL, c programing
Data Analysis & Visualization | Pandas, Tableau, Power Bi, Advance Excel
Database platform | Pgadmin , MySQL
Cloud Platforms | Amazon RDS.

— Proficient in creating dynamic reports, **data validation**, and automation for insightful business analysis.

— Strong ability to design interactive dashboards and reports, transforming raw data into actionable insights.

— Hands-on experience in creating interactive data visualizations and dashboards using **Power BI.**

— In-depth knowledge of IoT-based sensor networks, real-time data acquisition, and predictive analytics for various applications.

— Knowledge on programming languages such as C, and basic python for IOT embedded systems.

— Excellent teamwork, communication, and project management skills.

— Data Modeling, Data Mining

Language:

— English
— Kannada
— Hindi
— Konkani
— Telugu

Hobbies:

— Cricket
— Badminton
— Football
— Cooking
— Trucking
— Bike riding

Nikhil Olivera
IoT Data Analyst / Database Management

Summary

Detail-oriented IoT Data Analyst / Database Management and Embedded Systems Engineer with over three years of experience specializing in IoT sensor data analysis, cloud database management, and real-time monitoring of smart devices. Skilled in integrating PostgreSQL, MySQL, and AWS RDS, MQTT protocol for high-frequency sensor data collection and processing. Proficient in SQL querying, advanced Excel, and predictive maintenance strategies to optimize device performance and reduce downtime. Experienced in data visualization using Power BI, unactionable insights for business and operational improvements. Adept at developing real-time alert systems for performance monitoring, ensuring seamless IoT ecosystem functionality. Seeking to leverage expertise in IoT analytics and embedded systems to drive efficiency and innovation in data-driven industries

ACADEMICS:

— Bachelor of Engineering in E/C
(SJM institute of technology). 2014 – 2019

— PCME
(St. Aloysius PU college). 2012 - 2014

WORK EXPERIENCE:

Venus Industries (Aug 2024 - Present): Electronic development / Reporting Analyst

- **Situation**: IoT-enabled water meters deployed across India generated large volumes of consumption data with limited visibility into usage trends and anomalies.

- Task: Enable real-time monitoring, detect consumption irregularities, generating reports and support stakeholders with actionable insights for better water management.

- **Action:** Monitored and analyzed water consumption data from smart meters using IoT database applications and web interfaces. Performed anomaly detection and pattern analysis, and developed automated dashboards and reports tailored to operational and regulatory requirements. Additionally, conducted calibration tests to ensure device accuracy and compliance with industry standards.

- **Result:** Improved water usage transparency across key regions, reduced manual reporting time by 40%, and empowered stakeholders with accurate, data-driven decisions, helping optimize utility operations and reduce inefficiencies.

Nihon communication Solution Pvt Ltd (Feb 2022 – July 2024): IoT Data Analyst / Database Management

- **Situation:** Faced the challenge of managing and analyzing large volumes of IoT sensor data from healthcare and agriculture projects, with no structured data pipeline or reporting system in place**.**

- **Task:** Build an end-to-end IoT data management system to collect, store, monitor, and analyze sensor data from biometric devices and rural health camps, while also enabling actionable reporting.

- **Action:** Integrated real-time biometric sensor data from health monitoring devices into PostgreSQL (pgAdmin) and AWS RDS, streamlined CSV-based health camp data ingestion for monthly analysis, built dashboards for health trend visualization, and managed drone-collected agricultural sensor data under the SR-1901 Spectroradiometer project to support research and reporting.

- **Result:** Improved healthcare data accuracy by 30% and reduced manual reporting time by 35% across rural outreach programs by enabling real-time IoT sensor monitoring and maintaining accurate biometric logs. Also supported agricultural research by delivering accessible, real-time sensor data for enhanced academic and field-level decision-making.

PROJECTS:

Hospital Employee Log & Health Camp Data Management (June 2022 – July 2024)

- **Role:** IoT Data Analyst

- **Situation:** Hospitals and social organizations lacked a centralized system to manage biometric attendance and rural health camp data, leading to inconsistent reporting and delayed insights.

- **Task:** Design and implement a robust data management solution to track employee logs, monitor sensor battery health, and analyze health metrics collected from rural health camps.

- **Action:** Developed an IoT-based biometric logging system using PostgreSQL on AWS RDS, integrated CSV-based health camp datasets via pgAdmin for real-time analysis, and built SQL queries and Power BI dashboards for weekly and threshold-based reporting to monitor device performance and health trends.

- **Result:** Improved healthcare data accuracy by 38%, reduced manual reporting time by 32%, and enabled real-time monitoring of sensor performance and employee biometric logs, strengthening healthcare decision-making across rural programs.

SR-1901 Portable Spectroradiometer – Agricultural Research Project (Feb 2023 – July 2024)

- **Role:** IoT Data Analyst / Database management

- **Situation:** Agricultural researchers and students lacked real-time, accurate environmental data for analyzing soil and plant health, limiting the quality of experimentation and decision-making.

- **Task:** Build a robust IoT-driven data pipeline to capture, store, and analyze sensor data from drone-integrated devices to support agricultural research.

- **Action:** Designed and deployed PostgreSQL databases on AWS RDS to collect data from IoT sensors mounted on drones, capturing soil minerals, moisture, humidity, temperature, and voltage. Developed SQL queries and Excel dashboards for threshold-based analysis and anomaly detection to identify abnormal environmental conditions.

- **Result:** Enabled real-time analysis and improved agricultural data accessibility by 42%, reduced manual data processing time by 33%, and empowered over 150+ students and researchers with accurate, visual insights for precision farming and academic use.

Python Capstone Project : Data Processing & Insights Generation
- Leveraged Pandas and NumPy to efficiently process and transform large datasets, implementing data cleaning and management workflows.
- Automated missing data handling and optimized analysis processes, resulting in a 93% accuracy rate for generated insights.

Power BI Dashboard : Retail Sales Analysis & Visualization
- Developed 5+ interactive Power BI dashboards visualizing key retail metrics (sales, payment methods, regional performance) resulting in a 10% improvement in sales tracking.
- Analyzed sales trends and operational data (delayed orders, seasonality) across 3 retail locations, generating actionable recommendations that led to a 5% reduction in order processing time

Swiggy Funnel Analysis : OrderTrend Analysis & Revenue Optimization
- Analyzed order fluctuations, identifying weekend spikes (±20% variance) and correlating them with channel-specific traffic sources to uncover growth opportunities.
- Evaluated conversion rates across key stages (L2M, M2C, C2P, P2O) and formulated data-driven hypotheses to explain traffic and order trends, culminating in a comprehensive funnel analysis report.

SQL Capstone Project -Airline Database : Revenue & Operational Efficiency Optimization
- Automated the extraction and analysis of airline data using SQL, reducing report generation time by 40% and providing real-time insights on aircraft statistics, flight details, and passenger information.
- Leveraged SQL to analyze large datasets (over 10 million records) from Airbnb, Spotify, and Apple, identifying key trends in user behavior, market dynamics, and product performance, enabling data-driven decision-making that previously took weeks to accomplish.

Fresco Hypermarket Capstone : Profitability & Delivery Efficiency Improvement
- Improved delivery process efficiency by 10% through order-level analysis of 1,000+ Freshco Hypermarket orders, maintaining 100% report accuracy. Increased order completion rates by 15% via slot, day, and product analysis of 5,000+ orders.
- Boosted average revenue per order by 12% by analyzing customer-level metrics for 3,000+ clients, delivering reports with 95% accuracy. Proficient in data manipulation and table management for accurate analysis and streamlined reporting.

CERTIFICATIONS:
- Data Analytics & Python: **Skillovilla**
- Embedded System: **Cranes Varsity**

Declaration:
I hereby declare that the information provided in this resume is true and correct to the best of my knowledge and belief. I take full responsibility for the accuracy of the details mentioned.