Sanket Kothiya

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Education

Master of Applied Computing May 2024 – Present
University of Windsor, ON, Canada

Bachelor in Computer Engineering Aug 2018 – May 2022
A.D. Patel Institute of Technology, Gujarat, India *CGPA: 9.09/10*

Technical Skills

- **Data & Analytics: Power BI, Apache Spark, Pandas, NumPy, Tableau, Matplotlib, SQL**
- **Programming Languages: Python, R**, Java, TypeScript, JavaScript
- **Frameworks & Libraries: Node.js, Nest.js**, Express.js, React.js
- **Databases: PostgreSQL, MongoDB**, SQL Server, **Hadoop**
- **Cloud & DevOps: AWS**, DigitalOcean, Google Cloud, CI/CD, Git
- **Testing & Automation:** Selenium, PyTest, API Testing
- **Other Skills:** Probability, Statistics, **Data Analysis (Gathering, Cleaning, Visualization)**, Predictive Analysis

Experience

Data Analyst Intern , Livefield Technologies, India Dec 2023 – June 2024

- Preprocessed large datasets for **AI/ML** model development, including data cleaning, feature engineering, and exploratory data analysis **(EDA)** using Pandas, NumPy, & Seborn into usable formats with attention to detail and accuracy.
- Developed and implemented **ETL processes** in Python and SQL, reducing data processing time by 25% to store data in a data warehouse.
- Built **SQL scripts** containing rules and transformations required for data processing, ensuring consistency and reliability across all data transformations with 20% increase in query execution.
- Improved existing **Tableau reports** to enhance data-driven decision-making, identified key trends & relationships, and translated findings into actionable business insights.

Full Stack Developer, XR Studio LLP, India Sep 2022 – Dec 2023

- Created and optimized RESTful APIs in Python **(Django)**, **NestJS**, and **PostgreSQL**, increasing system throughput by 2x and decreasing response latency by 25%.
- Designed and implemented scalable database schemas and optimized queries in **MongoDB** and **PostgreSQL**, leading to improved data retrieval performance.
- Conducted data analysis using Python, **Power BI,** and **SQL**, generating actionable insights on user behavior and feature adoption, leading to improved user retention.
- Actively participated in Agile ceremonies, including daily stand-ups, sprint planning, and retrospectives, to enhance team collaboration and project efficiency. Utilized **Jira, Notion** for task tracking, documentation, and process improvements.

Projects

Livefield Application (Livefield Technologies)

- Implemented advanced **ETL** pipelines in **Python** (Pandas, NumPy) and **SQL** to ingest real-time performance data from multiple sources, transforming and aggregating metrics for interactive visualizations in **Tableau**.
- Deployed data-driven alerts and **predictive analytics**, leveraging historical usage patterns to forecast peak loads and proactively allocate resources, reducing server downtime by 25%.
- **Leveraged SQL** for querying and managing multiple datasets, and **DAX (Data Analysis Expressions)** to create custom metrics and calculations in dashboards.
- *Tools Used: Python, Pandas, NumPy, SQL, **Tableau , SQL**, React.js, **Hadoop**, AWS, MongoDB*

Ellusho App (XR Sttudio LLP)

- Conducted data analysis using **Power BI**, Python, and SQL to monitor call success rates, appointment completion rates, and user engagement trends, providing actionable insights that informed feature enhancements.
- Designed and implemented back-end services to facilitate patient-doctor appointment scheduling, supporting chat, video,

and voice call interactions for a seamless consultation experience.

- Configured **Firebase** to enable real-time notifications, improving communication between users and enhancing the overall user experience.
- *Tools Used:* ***Google Cloud, Power BI****, Firebase,* ***Nest.js****, React.js, Python, Twilio*

Nilo App (XR Studio LLP)

- Developed comprehensive APIs to efficiently manage the distribution of smart toothbrushes and track user earnings, ensuring accurate and real-time data processing.
- Designed and implemented an innovative token reward system, enabling users to earn and redeem NLT tokens for **NFTs**, thereby enhancing user engagement and platform interaction.
- *Tools Used: Nest.js,* ***Stardust****,* ***Web3****,* ***DigitalOcean****, Python*

COVID-19 Vaccination Analysis (Academic Project)

- Collected and consolidated nationwide vaccination data from official government and WHO databases, performing advanced data cleaning and transformation using **Python** (**Pandas**, **NumPy**) to ensure accuracy.
- Conducted in-depth **Exploratory Data Analysis (EDA)**, identifying regional vaccination patterns, age-group distribution, and demographic disparities that informed targeted public health strategies.
- Built **interactive dashboards in Power BI** to visualize vaccination progress, geographical distribution, and demographic impact, providing stakeholders with real-time insights for data-driven policymaking.
- Implemented basic **machine learning algorithms** (time series forecasting) to predict future vaccination trajectory and assess resource allocation needs, reducing potential bottlenecks in vaccine distribution.
- *Tools Used: Python, Pandas, NumPy, Excel,* ***Matplotlib****, Power BI*

Certifications

- Introduction to Spark SQL and DataFrames (LinkedIn Learning)
- Learning Data Analytics (LinkedIn Learning)
- Relational Databases Essential Training (LinkedIn Learning)
- Learning Hadoop (LinkedIn Learning)
- Selenium Essential Training (LinkedIn Learning)
- Hacktoberfest Open-Source Challenge Participant (2022 – 2024)