Sahil Birje

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TECHNICAL SKILLS

Programming Languages and Databases: SQL, MySQL, Oracle SQL, Python (NumPy, Pandas)
Visualization Tools: Power BI, QLIK
Other tools & Skills: Automation, Power Automate, Advanced Excel (pivot tables, XLOOKUP, conditional functions, charting), Business Analysis, Data Analysis
Soft Skills: Process improvement, attention to detail, time management, strong communication

PROFESSIONAL SUMMARY

A passionate individual with a diverse skill set and a keen eye for detail. Journeying through the world of technology, specializes in Python, SQL, Power Bi, and Data Analytics. Thrives on solving complex problems and leveraging data-driven insights to make informed decisions. With a blend of technical expertise and a creative mindset, driven to contribute meaningfully to projects that push the boundaries of innovation

EDUCATION

M.Sc. Data Science & Big Data Analytics, MIT WPU, Pune	9.01 CGPA	August 2022 – June 2024
BCA, Smt.P.D.Hinduja Trust's Institute of Management Studies, Mumbai	8.63 CGPA	August 2019 – August 2022

EXPERIENCE

ASSOCIATE DATA ANALYST   JUNE 2025 – CURRENT
Deets Digital – Grihum Housing Finance Limited, Pune
· Designed and enhanced Power BI dashboards in collaboration with business stakeholders to align with evolving requirements and improve decision-making.
· Optimized end-of-day (EOD) data synchronization by developing an Oracle SQL procedure using truncate-load logic, reducing load time by 60% (from 40 mins to 15 mins) and implementing fallback mechanisms for process reliability.
· Automated report generation and email distribution of DPD details for securitization deals, leveraging Python and Oracle SQL to streamline investor reporting.

DATA SCIENCE TRAINEE   JUNE 2024 – JULY 2025
Grihum Housing Finance Limited, Pune
· Developed an API for image transformations using Python and AWS Lambda, streamlining image processing.
· Automated a critical daily report using Python, saving 4–5 hours of manual work per day and streamlining communication with key stakeholders.
· Optimized SQL queries for efficient reporting, improving query performance by 10-15%.
· Created Stored Procedure in Oracle SQL to validate entries for insurance integration increasing accuracy and data quality.
· Designed and delivered Power BI reports for stakeholders, enhancing data accessibility and decision-making.
· Authored Business Requirements Documents (BRDs) aligned with project requirements, supporting clear project objectives and deliverables.

DATA ANALYST TRAINEE   NOVEMBER 2023 - MAY 2024
JP Technologies, Pune
· Automated data extraction and cleaning processes using Python, ensuring accuracy and efficiency.
· Created dynamic Power BI dashboards to support client presentations and decision-making.
· Documented workflows and analytical processes for seamless understanding and knowledge transfer.
· Developed compelling presentations to effectively pitch services to potential clients.

PROJECTS

ROAD LANE LINE RECOGNITION   AUGUST 2023 – OCTOBER 2023
· Created a dataset of 8750 images by extracting images from video recordings of the car simulation game Forza Horizon 4.
· Labeled 3495 images using the ROBOFLOW platform for the right, left, and middle lane lines and implemented augmentation techniques to generate 8750 images.
· Trained the model using YOLOv8 instance segmentation, achieving mAP50 of 0.881 and mAP50-95 of 0.719 for object detection. For mask detection, obtained a mAP50 of 0.867 and mAP50-95 of 0.576.

SALES ANALYSIS/DASHBOARD FOR DISTRIBUTOR   MARCH 2023 - JULY 2023
· Leveraged Python to combine data spread across folders in Excel format into a single true source, comprising 2.1 million records over 3 years.
· Employed Python to clean and transform the data entailing 5 schemas to 1 final schema.
· Analyzed the data and utilized Power Bi to create a dashboard with three reports, offering insights on revenue generated, product sales, and supplier-retailer performance.