

Prashant Kumar Yadav

☎ +91-9170787018 | ✉ prashants0325@gmail.com | 🔗 linkedin.com/in/onycx | 🌐 onyxcx.dev

SUMMARY

Results-driven Computer Science graduate specializing in data analytics, business intelligence, and data-driven decision-making. Proficient in Python, SQL, and Power BI with hands-on experience in ETL pipelines, data validation, statistical analysis, and dashboard development. Demonstrated ability to collect, process, and analyze large datasets, ensure data integrity, and present actionable insights to stakeholders. Experienced in conducting exploratory data analysis to identify patterns and trends that lead to innovative, data-informed solutions. Familiar with machine learning techniques including Scikit-learn and PyTorch to support predictive and prescriptive analytics solutions aligned with organizational objectives.

EDUCATION

Chandigarh University

August 2021 – June 2025

Bachelor of Engineering in Computer Science and Technology

- Relevant Coursework: Database Management Systems, Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Internet of Things

TECHNICAL SKILLS

Languages: Python, SQL, Java

Data Analytics & BI: Power BI, Tableau, Pandas, NumPy, Statistical Analysis, ETL, Data Validation, Data Cleansing, DAX Queries, Jupyter Notebook

Machine Learning & AI: Scikit-learn, TensorFlow, PyTorch, PyOD, Anomaly Detection, Predictive Analytics

Tools & Technologies: Git, Excel, Firebase, Supabase, MySQL, Agentic AI

Core Competencies: Data Integrity, Exploratory Data Analysis, Dashboards & Reporting, Business Intelligence, Stakeholder Communication, Data Wrangling

PROJECTS

Retail Sales Analytics Dashboard | *Python, SQL (MySQL), Power BI, Pandas, Jupyter Notebook*

GitHub

- Processed and cleaned 1M+ raw e-commerce transactions (UCI Online Retail II), reducing to 825K analysis-ready records via ETL and data validation; wrote 13+ SQL queries with CTEs and window functions to extract KPIs including \$17.7M revenue, 36,969 orders, and YoY growth trends across 41 countries
- Performed RFM customer segmentation identifying top 8% of customers (Champions) contributing 35% of revenue; built interactive Power BI dashboard with 25+ DAX measures, KPI cards, and geographic maps enabling executive decision-making
- Generated 8 publication-ready visualizations using matplotlib & seaborn, revealing peak sales hours (10 AM–3 PM) and a November revenue surge linked to pre-holiday demand; communicated findings and recommendations to non-technical stakeholders in a clear and concise manner

Customer Shopping Behavior Analysis | *Python, SQL, Power BI, Statistical Analysis*

GitHub

- Collected, processed, and analyzed 3,900+ retail transactions; performed end-to-end ETL and data cleansing with regular data validation to ensure data integrity across demographics and product categories
- Developed 20+ SQL queries for customer segmentation and exploratory data analysis; built interactive Power BI dashboard translating complex insights into stakeholder-ready reports – identified 77% loyalty rate and \$231K revenue patterns

CleanIQ: Hybrid Intelligent Dataset Cleaner | *Python, Pandas, Scikit-learn, PyTorch, PyOD*

GitHub

- Engineered a hybrid ML system combining rule-based processing, ML imputation, and autoencoder-based anomaly detection to automate large-scale dataset cleaning and ensure data quality and integrity
- Reduced manual data preprocessing effort by ~60% by automating missing value handling, duplicate detection, and outlier removal; implemented statistical methods and explainable transformation reports supporting predictive analytics readiness

Face Mask Recognition System | *Python, OpenCV, TensorFlow, Computer Vision*

GitHub

- Designed and deployed a real-time face mask detection application achieving 95%+ classification accuracy using deep learning and computer vision on live video feed data
- Implemented multi-face tracking with duplicate-prevention algorithms on continuous data streams; upgraded reporting metrics to include live face counts as an operational analytics output

CERTIFICATIONS & ACHIEVEMENTS

- **Microsoft Certified: Data Analyst** – Demonstrated proficiency in data visualization, business intelligence, Power BI reporting, and DAX, aligned with industry best practices
- Solved multiple data structures and algorithm problems across LeetCode, HackerRank, demonstrating strong analytical thinking and systematic problem-solving capabilities