

# Prashant Kumar Yadav

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## SUMMARY

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Results-driven Computer Science graduate with expertise in data analytics, machine learning, and AI-driven automation. Proficient in Python, SQL, and Power BI with hands-on experience in ETL pipelines, statistical analysis, and building intelligent data solutions. Skilled in prompt engineering, developing ML models with TensorFlow and PyTorch, and creating end-to-end data workflows. Strong problem-solver with proven ability to transform raw data into actionable business insights and automate complex data preprocessing tasks. Passionate about leveraging AI and analytics to drive data-informed decision-making and operational efficiency.

## EDUCATION

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### **Chandigarh University**

August 2021 – June 2025

*Bachelor of Engineering in Computer Science and Technology*

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

## TECHNICAL SKILLS

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**Languages:** Python, Java, SQL

**Data Analytics & BI:** Power BI, Pandas, NumPy, Statistical Analysis, ETL

**Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, OpenCV, PyOD, Prompt Engineering

**Tools & Technologies:** Git, React.js, Data Visualization

**Core Competencies:** Data Cleaning, Data Wrangling, Business Intelligence, SDLC, Data Structures & Algorithms

## PROJECTS

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

GitHub

- Analyzed shifting customer purchasing patterns affecting sales and loyalty across demographics and product categories for retail optimization
- Performed ETL and data cleaning on 3,900+ transactions using Python (Pandas, NumPy); created 20+ SQL queries for customer segmentation and revenue analysis
- Built interactive Power BI dashboard with advanced visualizations enabling stakeholder decision-making
- Identified 77% loyalty rate, \$231K revenue patterns, and growth opportunities through comprehensive data analysis
- Mastered end-to-end data analytics workflow from data wrangling to business intelligence dashboards

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

GitHub

- Engineered a local hybrid ML system combining rule-based processing, classical ML imputation, and autoencoder-based anomaly detection for automated dataset cleaning
- Reduced manual data preprocessing effort by automating handling of missing values, duplicates, outliers, and formatting issues with explainable transformation reports
- Designed modular architecture following conservative data preservation principles, achieving visualization-ready outputs without cloud dependencies

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

GitHub

- Designed and developed a responsive web application for real-time face mask detection using computer vision and deep learning
- Upgraded the application to count the number of faces through live video feed with tracking capabilities
- Solved problems related to duplicate counting and tracking using advanced image processing algorithms

## ACHIEVEMENTS

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- Microsoft Certified Data Analyst - Demonstrated expertise in data visualization and business intelligence
- Solved 100+ coding problems across LeetCode, HackerRank, and Codeforces platforms