

Dhruval J. Rana

Data Science & Analytics Enthusiast

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Professional Title

Data Analyst | Data Science Enthusiast | Business Intelligence & Machine Learning | Power BI Developer | AI/ML Engineer | Prompt Engineering | Python Developer

Professional Summary

Data Analyst and Data Science professional with strong expertise in **Python, SQL, Power BI, Tableau, and Machine Learning**. Experienced in **data analysis, predictive modeling, feature engineering, and dashboard development** to deliver actionable business insights. Proficient in **EDA, data visualization, statistical analysis, and ML model deployment**. Strong communicator with proven ability to collaborate across teams and solve real-world business problems using data-driven approaches.

Core Competencies (Hard & Soft Skills)

Data & Analytics: Data Analysis, Data Wrangling, Exploratory Data Analysis (EDA), Feature Engineering, Model Evaluation, Statistical Analysis, Time Series Analysis

Business Intelligence: Dashboard Development, KPI Reporting, Data Storytelling, SQL Query Optimization

Technical & Tools: API Integration, Version Control (Git), Data Quality Assessment

Soft Skills: Analytical Thinking, Problem Solving, Communication, Collaboration, Leadership, Time Management, Adaptability

Technical Skills

Programming & Libraries : Python (NumPy, Pandas, Scikit-learn, Statsmodels), SQL

Machine Learning: Regression, Classification, Clustering, Supervised & Unsupervised Learning, Hyperparameter Tuning

Data Visualization: Power BI (DAX, Power Query, Data Modeling), Tableau (Dashboards, LOD Expressions), Matplotlib, Seaborn, Plotly, KPI Dashboards & Data Storytelling

Databases & Big Data: MySQL, MongoDB, Oracle 11g, SQLite, Hadoop, Spark, HiveQL, HDFS

Tools & Platforms: Excel, Git, Jupyter Notebook, MATLAB, Azure, Docker, Streamlit

Professional Experience

TechnoAdviser Technologies Pvt. Ltd. – Python Developer (AI/ML)

Feb 2026 – Pursuing

- Delivered AI/ML solutions improving automation and user engagement
- Built RAG chatbot systems for efficient knowledge retrieval and interaction
- Engineered travel and tours applications for streamlined booking and planning
- Designed a travel planner chatbot providing personalized trip recommendations

Nautics Technologies Pvt. Ltd. – Data Mining Executive

Dec 2023 – Dec 2025

- Conduct data mining and data extraction from multiple structured and unstructured sources
 - Implement data-driven lead generation strategies to improve targeting efficiency
 - Validate, clean, and optimize large datasets to enhance campaign performance
 - Improve email campaign conversion rates through data analysis and optimization techniques
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Projects

Real-Time Emotion Detection

Tools & Technologies: Deep Learning, CNN, OpenCV, Python

- Built and trained CNN models on the FER2013 dataset for multi-class emotion recognition
- Improved model accuracy using data augmentation and regularization techniques
- Implemented real-time face detection and emotion classification via webcam

GAANDIV (RAG Chatbot)

Tools & Technologies: Python, Django, Django REST Framework, PostgreSQL, Cloudflare Workers AI, LangChain, scikit-learn, Razorpay, HTML, CSS, JavaScript

- Built a RAG-based AI chatbot to answer queries from the internal knowledge base
- Implemented a custom retrieval pipeline using embeddings with TF-IDF fallback
- Integrated LLM (Llama 3.1) via Cloudflare Workers AI for response generation
- Developed a document processing pipeline for PDF and HTML data
- Added multilingual chat, chat history, and admin knowledge management features
- Implemented subscription system with online payments integration

Complaint Management System

Tools & Technologies: Python, Django, SQLite, Docker, REST API

- Designed a full-stack complaint tracking system with role-based access control
- Built RESTful APIs using Django Rest Framework
- Implemented an analytics dashboard to track complaint trends

Dash Nexus (AI-powered analytics platform)

Tools & Technologies: Django, LangGraph, LangChain, scikit-learn

- Automated Data Analysis, AI-Powered Dashboards, Multi-Modal Interface, Voice Analytics, Real Business Model
- DashNexus is an AI-powered analytics platform that automatically transforms CSV/Excel files into interactive dashboards with AI-generated insights. Upload data → AI analyzes & generates charts → explore via chat, voice, or editing.

Trip-Z (An AI-Based Travel Planner Chatbot)

Tools & Technologies: Python, Django, REST API, AI/ML, LangChain

- Developed an AI-powered chatbot to generate personalized travel itineraries
- Integrated NLP techniques to understand user preferences and queries
- Built backend APIs for chatbot interaction and data processing
- Enhanced user experience with dynamic and context-aware responses

Education

- **JG University**

Master of Science in IT (Business Intelligence & Analytics)

2024 - 2026 – CGPA: **9.3**

- **Lokmanya College of Computer Application (Gujarat University)**

Bachelor of Computer Application

2021 - 2024 – CGPA: **6.70**

Certifications

- **Winner – College-Level Hackathon** – Awarded **1st Runner-Up** in college Hackathon for designing and deploying a Django-powered Complaint Management System.
- **Data Visualization Certification** – Tata
- **Data Analytics Job Simulation**
- **C Programming Certification** – C-DAC

Interests

Personal Data Visualization Projects, AI & Emerging Technologies, Strategic Board Games, Vibe coding