

# RITESH DESHMUKH

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<https://github.com/Riteshdeshmukh22>

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## Professional Summary

Aspiring Data Analyst with hands-on experience in Excel, SQL and Python. Passionate about solving real-world problems using statistical analysis and ML techniques. Proficient in tools like Power BI, Tableau, Seaborn, and Matplotlib for deriving actionable insights. Experienced with data handling, EDA, and building analytical pipelines to support business decisions.

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## Technical Skills

- **Programming & Tools:** Python, SQL, Tableau, Jupyter Notebook, Power BI, Excel.
- **Libraries & Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn
- **Data Analysis:** Data cleaning, exploratory data analysis (EDA), statistical analysis, hypothesis testing, data Visualization.
- **Machine Learning:** Supervised & Unsupervised Learning, Regression, Classification, Clustering, Model Evaluation
- **Soft Skills:** Problem-Solving, Analytical Thinking, Collaboration, Continuous Learning

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## Education

- **Bachelor of Engineering in Computer Science & Engineering**  
Prof. Ram Meghe Institute of Technology & Research (2020– 2024)
- **Higher Secondary Certificate (Science):**  
Shri Shivaji Science College, Amravati (2018– 2020)

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## Projects

### 1) AI Agentic Chatbot Integration with Magento E-Commerce Platform

- Developed an AI agentic chatbot using Google Gemini for intelligent, context-aware interactions.
- Integrated the chatbot into a Magento e-commerce website via a Flask API backend.
- Implemented Retrieval-Augmented Generation (RAG) using FAISS and LangChain for accurate, content-based responses.
- Enabled semantic search to improve user query relevance and product discovery.
- Deployed a functional prototype showcasing real-time support and scalable architecture.

### 2) Plant Disease Detection using Machine Learning

- Developed a Deep Learning model using CNN to accurately classify plant diseases from leaf images.
- Enhanced image quality through advanced preprocessing techniques (noise reduction, resizing, augmentation).
- Trained on both custom and publicly available datasets, achieving high accuracy across multiple disease categories.
- Deployed the model in a test environment for real-time inference, demonstrating potential for smart agriculture applications

### 3) Roomzilla Hotel Booking Website

- Built a hotel booking system prototype using HTML, CSS, SQL, and basic database management principles.
- Integrated backend databases with the web interface to enable real-time booking updates and data retrieval.
- Designed user-friendly layouts for room selection, availability checks, and booking confirmation.

### 4) EV Market Analysis & Prediction

- Conducted exploratory data analysis (EDA) on the Indian automobile market to identify popular vehicle body types and top-selling categories.
- Created interactive visualizations to showcase market trends and customer preferences using tools like Matplotlib, Seaborn, Plotly.
- Applied Machine Learning models (e.g., ARIMA, Linear Regression) to forecast future EV sales trends.
- Delivered insights to support data-driven decision-making for EV manufacturers and policymakers.

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## Experience

### Data Analyst Intern

–Cravita Technologies, Pune.(6 months)

- Developed an interactive Python-based dashboard using Dash and Plotly to analyze accident data by hour, day, and district.
- Pre-processed data with Excel and Pandas.
- Delivered a meaningful insights from a unstructured data.
- Acquired practical expertise in Power BI and Tableau.

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## Experience

- Machine Learning Intern** – FEYNN Labs (march2025-may2025)
- Conducted market segmentation analysis for the EV vehicle industry.
  - Worked on real-world data analysis projects, applying clustering and predictive modeling techniques.
  - Collaborated with teams to deliver actionable insights and business recommendations.

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## Certifications

- **Fortune Cloud Technology – Data Analysis & Data Science certificate**
- **Edureka – Python For Visualization certificate**
- **Spoken Tutorial – MySQL Training certificate.**