Rohit Patne

Pune, Maharashtra | rohitpatne14@gmail.com | +91 8411996820

TECHNICAL SKILLS

- **Programming languages:** Python (Pandas, NumPy, Matplotlib, Seaborn), SQL, R (basics).
- **Data Science & Analytics Tools:** Jupyter Notebook, Google Colab, Power BI, Tableau, Excel (Pivot Tables, VLOOKUP), Scikit-learn, StatsModels.
- **Concepts:** Machine Learning, Deep Learning.
- **CS Fundamentals:** Data Structures and Algorithms, OOPS, Operating Systems, Computer Networks, Database Management Systems.
- **Databases:** MySQL.

EDUCATION

BTECH in Computer Science Engineering *D.Y. Patil University Pune, Aug 2021 – 2025*
GPA: 7.79

12th Grade *ASM Institute of Technology, Pune, April 2021*
Percentage: 76%

10th Grade *Amrita Vidyalayam, Pune, March 2019*
Percentage: 90%

PROJECTS

Sales Forecasting: Retail Chain Revenue Prediction

- Built a sales prediction model for 1,100+ retail stores using machine learning, achieving 90% + precision in monthly revenue forecasts.
- Analyzed 3+ years of sales data to identify seasonal trends and create 15 key characteristics that improved the precision of the prediction by 25%.
- Developed an automated forecasting system with real-time dashboard, allowing managers to instantly generate sales predictions for any store.

Stock Market Analysis

- Designed trading algorithm using technical indicators and sentiment analysis, generating 15% annual returns in backtesting across 2+ years of market data.
- Processed 50,000+ financial data points from multiple APIs to extract price patterns, volume trends, and news sentiment scores for predictive modeling.
- Constructed automated portfolio optimization system with risk management rules, reducing maximum drawdown by 30% while maintaining consistent returns.

Interactive COVID-19 Global Impact Dashboard

- Interactive dashboard showing COVID-19 trends for 200+ countries using real-world health and economic data from multiple government sources.
- Combined data from 5 different sources (WHO, World Bank, Google) into one system that updates automatically every day.
- Created 6+ charts and maps that users can click on and explore, including animated world maps showing how the pandemic spread over time.

RESEARCH PUBLICATIONS

AI driven drugs traceability system

- Built a secure drug traceability system using AI and blockchain to detect fake and expired medicines.
- Implemented smart contracts for automated expiry alerts and reverse logistics, improving safety and regulatory compliance.
- Integrated AI models for demand forecasting and anomaly detection, reducing inventory waste and enhancing operational efficiency.