

# AKSHATA PATANKAR

7021962512 | akshatapankar20@gmail.com | Mumbai, Maharashtra

[LinkedIn](#) | [Portfolio](#) | [Github](#)

## SUMMARY

A recent graduate with a M.Sc. in Data Science and a background in Mathematics, with skills in Python, SQL, R, and data visualization tools such as Tableau, Power BI, and Excel. Through academic projects and an internship, I gained practical experience in ETL pipelines, time-series forecasting, data preprocessing, and dashboard development. I am eager to apply my knowledge in real-world projects, contribute to data-driven decision-making, and continue learning in collaborative environments.

## TECHNICAL SKILLS

- **Languages:** Python, SQL, R
- **Libraries/Tools:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Visualization:** Tableau, Power BI, Advanced MS Excel
- **Big Data & Cloud:** Hadoop, PySpark, Apache Airflow, Apache Nifi, Linux
- **Concepts:** ETL, Machine Learning, Time-Series Forecasting, Deep Learning, Generative AI

## EDUCATION

- **Master of Science in Data Science** - Sathaye College, University of Mumbai | 2023 - 2025
- **Bachelors in Science in Mathematics** - Sathaye College, University of Mumbai | 2020 - 2023
- **Diploma in Data Analytics** - Pride Educare | 2023 -2024

## EXPERIENCE

### Data Analyst Intern - Dr. Mohan Thomas Aesthetics | Hybrid

Feb 2024 - May 2024

- Collected competitor pricing data through primary research (phone calls, brochures) and compiled a reference table to support pricing decisions and strategy.
- Processed and cleaned secondary data provided by the company, creating visual dashboards analyzing patient demographics, procedure popularity, and monthly trends over two years.
- Leveraged insights from dashboards to propose and optimize social media marketing strategies, ensuring campaigns reached the right audience.

## PROJECTS

### Data Pipeline and Dashboard Development – CSMT Airport

- Built an end-to-end ETL pipeline using Python and Airflow, automating data extraction via APIs and feature engineering (e.g., flight duration, domestic/international flags). Designed a Tableau dashboard visualizing total flights, peak hours, delays, and destinations, delivering actionable insights for operational efficiency.

### Gold Price Forecasting Using ARIMA

- Performed time-series analysis on historical gold prices using ARIMA, including stationarity testing, parameter selection, and model evaluation and evaluated the forecasting performance.

### Coral Health Monitoring Using Image Processing

- Developed image processing algorithms to detect and classify coral bleaching and diseases, enhancing the accuracy of reef health assessments. Applied machine learning techniques to reduce detection errors and improve monitoring efficiency.

### EUR/USD Price & Volatility Dashboard

- Developed an interactive dashboard using Tableau (or Python visualization libraries) to analyze price trends and rolling volatility, applying statistical metrics and smoothing techniques for forecasting and data-driven decision-making.

## ADDITIONAL INFORMATION

**Languages:** English, Marathi, Hindi

### Awards/Activities:

- Presenter, 19th Avishkar Intercollegiate Research Convention, University of Mumbai (2024) – Presented research on coral reef health monitoring using image processing techniques.
- Participant, Fledgling Researcher Program on Graph Theory in Network Routing, University of Mumbai (2022).
- Runner-up, Avanti Foundation Leadership Program (2017) – Recognized for leadership and team collaboration.
- Second Place as team, Intercollegiate Working Science Project Competition (2018)