

# Aditi Dsouza

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## Professional Summary

Aspiring Data Analyst with a background in Life Sciences and practical experience in SQL, Python (Pandas, NumPy), and R. Skilled at managing and analyzing user interaction data through backend systems and query-driven solutions. Experienced in building structured datasets and delivering insights that improve engagement and decision-making. Strong foundation in scientific research, bioinformatics, and technical communication.

## Education

**Sophia College (Autonomous), Mumbai** — B.Sc. Life Sciences (Mar 2023)

**R.S. Infotech Computer Education, Vasai** — Diploma in Full Stack Web Development (Oct 2024)

## Projects (Data & Analytics Focus)

### YouTube Prototype Clone — SQL-Driven Engagement Tracking

- Designed and implemented a SQL database to manage user interactions (likes, dislikes, comments).
- Built queries to track engagement metrics and analyze activity patterns across 20+ unique test interactions.
- Optimized backend data retrieval, achieving a 60% performance improvement.

### Responsive College Website — Query Form & Data Management

- Developed a SQL-powered query form to capture and process student inquiries.
- Reduced response time by 30% by automating submission handling.
- Enhanced website structure to boost user engagement by 40%.

### Quiz Application — Data Recording & User Insights

- Created an interactive quiz app with real-time scoring and response tracking.
- Stored and managed user results using backend databases for pattern recognition.

### Bioinformatics Coursework Project

- Applied bioinformatics tools to analyze gene/protein data.
- Organized and interpreted biological datasets, strengthening data cleaning and analysis skills.

## Certifications

Scientific Writing Course — Sophia College, Mumbai

Bioinformatics Course — Sophia College, Mumbai

Diploma in Full Stack Web Development — R.S. Infotech, Vasai (2024)

## Technical Skills

- Analytics & Tools: SQL, Python (Pandas, NumPy), R, Excel, Google Sheets
- Programming: PHP, JavaScript, C, C++, Java
- Web Development: HTML, CSS, React.js, Node.js, Django, MySQL, MongoDB
- Other: Scientific writing, bioinformatics data analysis