

# Riya H.S. Pandey

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## ■ Objective

Highly motivated Master of Data Analytics (MSc.DA) student with a strong foundation in high-performance computing concepts, algorithms, and data processing. Seeking a Data Processing Developer Technology Intern role to apply expertise in performance optimization and robust software development to large-scale computational challenges. Known for a logical approach to problem-solving, effective communication, and efficient time management.

## ■ Technical Skills

Category	Skills & Tools
Programming	Python, SQL, MongoDB
Data Science	Machine Learning (Supervised Learning), Data Analysis, Scikit-learn
Visualization/Tools	Tableau, Power BI, Jupyter Notebook, Git

## ■ Relevant Projects

### **Collaborated Project – Facial Golden Ratio Detection (Python, Google Colab, Data Visualization)**

Developed a project to detect the golden ratio of a person's face by calculating facial proportions such as length and width using Python in Google Colab. Applied data visualization techniques to represent face symmetry metrics interactively.

### **Collaborated Power BI Visualization Projects**

Built a Power BI dashboard to visualize job counts and average yearly salaries of various jobs in 2024, including highest-paying jobs across different countries using maps, cards, and bar charts.

Currently developing an advanced Power BI dashboard to identify the top 4 highest-paid jobs globally, showcasing the number of jobs, yearly/hourly salaries, percentage and value comparisons of degree vs. non-degree jobs, and other metrics.

### **Movie Recommender System (Performance Optimization & DL Models)**

Built a web-based movie recommendation engine using content-based filtering. Processed and cleaned movie metadata using Python and Pandas. Designed vector similarity calculation demonstrating linear algebra principles critical for performance. Implemented performance analysis and ported high-load similarity function to C++ module for faster execution.

### **Route Optimization System (Algorithms & High-Performance Logic)**

Developed an optimized route planning system using real-time data. Applied ML logic for shortest-time path prediction. Focused on minimizing travel time by designing and optimizing the critical pathfinding algorithm, showcasing potential for efficient runtime.

## **Global Data Processing and Visualization Projects**

Utilized data processing techniques on CSV data to find and visualize downtime in factories using Tableau. Executed job market analysis visualizing job count and salary metrics in Power BI. Performed equity table analysis in Excel to report unequal pay distribution.

## **■ Education**

**Masters of Data Analytics (MSc.DA) - Pursuing**  
University of Mumbai, Kalina - Kurla **Bachelor of Science**

**(B.Sc. IT)** (Aug 2021 – May 2025)  
Model College of Science and Commerce, Kalyan  
CGPA: 8.75

## **■ Certifications & Trainings**

Data Analytics Job Simulation (Deloitte/Forage): Completed practical tasks in Data Analysis and Forensic Technology.

Research Methodology Course (Udemy): Completed 1-hour course covering research techniques and documentation.

Cloud Computing Intern, iFuture: Gained hands-on experience with cloud infrastructure, services, and security protocols.

## **■ Strengths**

Logical Problem Solving: Possesses a logical approach to problem-solving, good time management, and prioritization skills.

Communication: Strong communication and confident presentation abilities, with expertise in research-based tasks.