

# Srijan Rijal

## Web and Data Enthusiastic

☎ 9815351007

✉ [Srijanrijal494@gmail.com](mailto:Srijanrijal494@gmail.com)

🌐 <https://srijanrijal-portfolio.netlify.app/>

### Summary

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Final-year Computer Science student with hands-on experience in Front-End Development and WordPress development. Skilled in building responsive user interfaces using HTML, CSS, JavaScript, and modern development tools. Experienced in optimizing websites for performance and user experience, with a strong foundation in problem-solving and collaborative development. Seeking a Junior Front-End Developer role to apply and grow my frontend skills in a professional environment.

### Technical Skills

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**Programming:** Python, SQL, JavaScript

**Data Analysis:** Python (Pandas, NumPy), SQL, Statistical Analysis, Exploratory Data Analysis (EDA), Data Cleaning

**Machine Learning:** Scikit-learn, XGBoost, Predictive Modeling, Feature Engineering, Model Evaluation

**Database & SQL:** MySQL, MongoDB

**Tools & Technologies:** Git, Jupyter Notebook, VS Code, Postman, Excel, phpMyAdmin

### Education

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**IIMS College**

**Kathmandu, Nepal**

*BSc (Hons) in Computer Science (Data Science Specialization) – Final Year*

*2023 – 2026 (Expected)*

- Relevant Coursework: Data Structures & Algorithms, Machine Learning, Database Management Systems, Statistics, Data Mining

### Experience

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**WordPress Developer Intern**

**Mar 2025 – Jun 2025**

*SmartSites Nepal*

*Kathmandu, Nepal*

- Analyzed website performance metrics and user behavior data using Google Analytics to provide insights for optimization
- Extracted and analyzed data from MySQL databases to track content performance and user engagement patterns
- Created reports on website traffic, conversion rates, and SEO performance for client presentations
- Optimized database queries resulting in improved page load times and enhanced user experience
- Managed database operations including data cleaning, backup, and migration of WordPress sites

### Projects

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**Ghar Nirman – AI/ML Tender Bidding System** | *Python, XGBoost, MongoDB, Pandas, NumPy*

**2024**

- Performed comprehensive exploratory data analysis (EDA) on 5000+ tender records to identify bidding patterns and trends
- Cleaned and preprocessed large datasets including handling missing values, outliers, and data normalization
- Engineered 15+ features from raw tender data using domain knowledge to improve model performance
- Built XGBoost predictive model achieving 85% accuracy in forecasting tender winners through statistical analysis
- Created data visualization dashboards to present insights on cost estimation patterns and bidding behavior
- Developed automated ETL pipeline using Python to extract, transform, and load data from multiple sources
- Optimized MongoDB aggregation queries reducing data processing time by 40%

### **Bhabya Event – Event Management System** | *PHP, MySQL, Data Analytics*

**2024**

- Designed normalized relational database schema with 12+ tables optimized for analytical queries
- Implemented complex SQL queries using JOINS, subqueries, and aggregate functions for business intelligence reports
- Created analytical dashboards displaying event attendance trends, revenue analysis, and booking patterns
- Analyzed user behavior data to identify peak booking times and popular event categories
- Developed automated reporting system generating weekly performance metrics for stakeholders

### **MotoSafa – Waste Management Analytics** | *Java, MySQL, Data Analysis*

**2024**

- Built data models to track and analyze waste collection efficiency across multiple routes and time periods
- Performed statistical analysis on collection data to identify optimization opportunities and reduce operational costs
- Created SQL views and stored procedures for generating KPI reports on collection schedules and disposal metrics
- Designed data pipeline using JDBC to aggregate daily collection data for trend analysis
- Developed visualization reports showing collection patterns, route efficiency, and resource utilization

### **Data Analysis & Visualization Projects** | *Python, Pandas, Jupyter Notebook*

**2023 – 2024**

- Conducted various data analysis projects including customer segmentation, sales forecasting, and trend analysis
- Created interactive visualizations using Matplotlib and Seaborn to communicate insights effectively
- Performed statistical hypothesis testing and correlation analysis on real-world datasets

## **Certifications**

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**Introduction to Machine Learning** – Completed Jan 2024

**Data Visualization** – Completed May 2024

**Python Fundamentals** – Completed Jan 2024

## **Key Competencies**

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**Data Analysis Skills:** Data Cleaning & Preprocessing, Statistical Analysis, Exploratory Data Analysis, Feature Engineering

**Analytical Tools:** Excel (Advanced - Pivot Tables, VLOOKUP, Data Analysis), SQL (Complex Queries, Aggregations)

**Business Intelligence:** KPI Development, Dashboard Creation, Report Generation, Data Storytelling

**Soft Skills:** Critical Thinking, Problem Solving, Attention to Detail, Communication, Team Collaboration

**Languages:** English (Fluent), Nepali (Native)