

SANTOSH SHRESTHA

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GitHub: [Rustum-Shrestha](#) | LinkedIn: [santoshshrestha4](#)

TECHNICAL SKILLS

- **Programming Languages:** Java, C, Python (Pandas, NumPy, scikit-learn, TensorFlow), JavaScript (ES6+)
- **Full-Stack Web Development:** WAMP (PHP, MySQL), MERN (MongoDB, Express, React, Node), .NET, REST API Design
- **DevOps & Cloud:** Git/GitHub, Docker and Kubernetes
- **Data Structures & Algorithms:** Proficient in designing and optimizing algorithms for scalable systems
- **Machine & Deep Learning:** Experience with Haar Cascade, HOG, Random Forest, and neural network architectures
- **Soft Skills:** Team collaboration, effective communication, problem-solving, and adaptability under pressure

ACADEMIC PROJECTS

- **Face Authentication based Attendance System (PHP, FastAPI, MySQL, Haar Cascade)** | github.com/Rustum-Shrestha/snapattendance_reengineered
Led development of a full-stack biometric attendance system, achieving 95% facial recognition accuracy using Haar Cascade and Random Forest. Optimized MySQL database queries to handle 10,000+ daily records, reducing latency by 30%. Collaborated with a team of 4 to integrate FastAPI for real-time processing.
- **Lexical Similarity based Duplicate Question Detection System (Streamlit, NLP Features, Random Forest/XGBoost)** | github.com/Rustum-Shrestha/quora_lexical_duplicate_classifier
Built a lightweight Streamlit based classifier to detect duplicate questions with 72% test accuracy. Implemented token-based features, longest substring ratio, and fuzzy matching metrics for semantic similarity. Designed a simple UI with two text inputs and a single button to classify pairs as duplicate or not duplicate.
- **Falodhyam - E-commerce System (WAMP: PHP, MySQL)** | github.com/Rustum-Shrestha/falodhyam
Built a scalable e-commerce platform with role-based access (buyer, seller, admin), supporting 1,000+ daily transactions. Implemented CRUD operations, cart, wishlist, and stock management, improving checkout process efficiency by 25% through optimized SQL queries.
- **Digital Mandu - Food Ordering System (MERN, Khalti Payment)** | github.com/Rustum-Shrestha/DigitalMandu
Designed and developed a responsive food delivery platform, integrating Khalti for secure payments and WebSocket for real-time order tracking. Improved user retention by 20% through intuitive UI/UX. Managed end-to-end development, from database schema design to frontend deployment.
- **Chatopia - Real-time Chat App (MERN, WebSockets)** | github.com/Rustum-Shrestha/chatopia
Made a real-time messaging platform supporting 100+ concurrent users with WebSocket-based communication. Implemented JWT-based authentication, reducing unauthorized access attempts by 90%. Optimized MongoDB queries for low-latency message delivery.

EXPERIENCES

- **Full-Stack Developer | Saurabh Group of IT – Sarbottam Steels & Laxmi Steels** (April 2025 – July 2025)
Led backend development of a steel logistics system using PHP, managing a relational MySQL database with 500,000+ records. Optimized query performance by 35% using indexing and trivial optimization. Designed RESTful APIs for seamless integration with frontend systems, reducing data retrieval time by 20%. Collaborated with a cross-functional team of 6 to implement an ERP workflow system with full authentication. Ensured compatibility using Docker.

ACHIEVEMENTS AND CERTIFICATIONS

- Accomplished Math for Machine Learning certificate by Ligency I team
- Accomplished Feature Engineering for Machine Learning in Python from Datacamp
- Extreme Gradient Boosting with XGBoost
- Introduction to Deep Learning With Pytorch
- Intermediate Deep Learning With Pytorch
- Explainable AI with SHAP and LIME
- MLOps Fundamentals
- Accomplished full-stack web development certificate from YouAccel
- Accomplished Web Designing certificate from Global IT

EDUCATION

- **Bachelor in Computer Application | Saraswati Multiple Campus** (2022 – Ongoing)
Relevant Coursework: Data Structures, Algorithms, Database Management Systems, Machine Learning, Cloud Computing
- **Computer Science (Grade XII) | Saraswati Boarding School** (2078)
CGPA: 2.81 | Relevant Coursework: Programming in C, Web Development, Computer Architecture
- **(Grade X) SEE | Canvas Basanta Ritu School** (2075)
GPA: 3.1 | Recognized for excellence in Mathematics and Computer Science

REFERENCES

- Mr. Deepak Poudel - Deputy Head of BCA at Saraswati Multiple Campus: +977 9863382689
- Mr. Santosh Baral - Internship Mentor: +977 9802266549
- Er. Manoj Giri - Project Supervisor: +977 9851318631
- Mr. Shree Acharya - System Evaluater : +977 9802266522
- Mr. Sabin Khanal - Mentor: +977 9863180880