



## Sandesh Ghimire

**Nationality:** Nepalese **Date of birth:** 11/03/2000 **Gender:** Male

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**Github:** <https://github.com/Sandesh-Ghimire>

**Home:** Sangurigadhi -05, Dandabazar, Dhankuta, 56803 Dhankuta (Nepal)

**Work:** Kathmandu, Nepal, 44600 Kathmandu (Nepal)

### EDUCATION AND TRAINING

#### Computer Engineering

**Marwadi University** [ 10/06/2019 – 20/07/2023 ]

**City:** Rajkot | **Country:** India | **Website:** <https://www.marwadiuniversity.ac.in> | **Field(s) of study:** B.Tech In Computer Engineering | **Final grade:** 9.30/10

- Mathematics, Database Management System, Statistics, Machine Learning, Programming languages(C, PHP, C#, Python, Html, CSS, JS, React JS, MongoDB, Node JS), Computer Network, Compiler Designing, Computer Organization and Architecture, Theory of Automata and Formal Languages.

- Proficient with tools such as Git, Git Hub, VS code, .NET framework.

- Data Structure & Algorithm

- knowledge of how computer and computer network works.

### WORK EXPERIENCE

#### Web application developer

**Tesla Booster Academy** [ 15/03/2024 – Current ]

**City:** Thapathali, Kathmandu | **Country:** Nepal

Website link: [Here](#)

- Developing website to showcase their services.

- Developing student management systems and managing their data and maintain security issues.

- Teaching programming and its concepts to students.

#### IT Officer

**Himalayan White House International College** [ 27/12/2023 – Current ]

**City:** Kathmandu | **Country:** Nepal

Website link: [Here](#)

- Maintenance of computers and full network system

- Developing website and systems for college management

- Teaching Computer Science to students

#### Web application developer

**Softtech Foundation** [ 15/05/2022 – 15/07/2022 ]

**City:** Kathmandu | **Country:** Nepal

- maintenance of websites which were provided to clients



- solving issues of clients and adding new features as asked.
- Co-operate with designers to create clean interfaces and simple, intuitive interactions and experiences.

## PROJECTS

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[ 10/01/2023 – 13/05/2023 ]

### JAALCHITRA

- Developed "Jaalchitra," a pioneering final-year project supervised by Prof. Ankita Mishra and Prof. Hardik Doshi at Marwadi University, focused on addressing network latency and congestion in video streaming.
- Designed a comprehensive video streaming website with innovative features, including dynamic video chunking to optimize streaming efficiency and advanced user authentication mechanisms to mitigate account sharing issues.
- Implemented dual perspectives: a provider interface for content management and a consumer interface featuring adaptive resolution selection and data-efficient streaming.

Link: <https://github.com/Sandesh-Ghimire/VideoStreamingWebApp>

[ 11/07/2022 – 07/12/2022 ]

### Nepalese Stuff

- Led a team in developing "Nepalese Stuff," a groundbreaking blog website aimed at providing comprehensive and reliable information about Nepal. Supervised by Assistant Professor Jaydeep Ratanpara, the project earned an Outstanding (O) rank among peers in the 7th semester of Computer Engineering.
- Utilized HTML, CSS, JavaScript, jQuery, Bootstrap, PHP to create a dynamic platform featuring a Content Management System (CMS) and user authentication for seamless content updating.
- Addressing the lack of responsive and updated resources, the site serves as a dedicated hub for national and international users to access essential information about Nepal's tourism, culture, and more, ultimately promoting the country on a global scale.

Link: [https://github.com/Sandesh-Ghimire/NepaleseStuff\\_s](https://github.com/Sandesh-Ghimire/NepaleseStuff_s)

## HONOURS AND AWARDS

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[ 15/08/2019 ] India Government

**Study In India - Fully Funded Scholarship for Bachelor's in Technology** Awarded a prestigious fully funded scholarship by the Government of India for pursuing a Bachelor of Technology (B.Tech) degree in Computer Engineering.

[ 14/08/2017 ] Nepal Government

### Science & Robotics Competition 2017

- Designed and implemented a pioneering car prototype utilizing Arduino technology to prevent accidents, showcasing advanced programming for collision detection and ensuring stability to prevent falls from cliffs.
- Recognized at the national level for groundbreaking contributions to science and technology.



[ 12/02/2016 ] Nepal Red Cross Society

**Certificate of Appreciation Nepal Red Cross Society**

- Recognized for outstanding volunteer service and commitment to supporting those in need.
- Demonstrated compassion and dedication in contributing to humanitarian efforts, embodying the spirit of altruism and community service.

[ 05/04/2013 ] Nepal Red Cross Society & Rotary Club

**Certificate of Volunteering in Health Camp**

- Acknowledged for active participation in organizing and assisting in health camps jointly conducted by the Nepal Red Cross Society and Rotary Club.
- Contributed to promoting community health and well-being through volunteer service, embodying the values of compassion and collaboration.

## PUBLICATIONS

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[2023]

**Automated Stroke Prediction Using Machine Learning: An Explainable and Exploratory Study With a Web Application for Early Intervention**

- Conducted pioneering research on stroke prediction utilizing machine learning techniques and explainable methodologies. Demonstrated the effectiveness of the proposed machine learning approach through rigorous comparison with established classifiers, achieving up to 91% accuracy in prediction.
- Employed SHAP and LIME techniques to provide valuable insights into model decision-making processes, paving the way for enhanced stroke care and treatment strategies.

Krishna Mridha, Sandesh Ghimire, Jungpil Shin, Anmol Aran, Md. Mezbah Uddin, M. F. Mridha

Link: <https://ieeexplore.ieee.org/abstract/document/10130159>

[2023]

**Automating Malaria Diagnosis with XAI: Using Deep-Learning Technologies for More Accurate, Efficient, and Transparent Results**

- Led groundbreaking research in automating malaria diagnosis using advanced deep learning techniques, achieving over 95% sensitivity in parasite detection.
- Innovatively combined convolutional neural networks (CNNs) and explainable artificial intelligence (XAI) methods like Grad-CAM for transparent and accurate results, revolutionizing diagnostic approaches and potentially saving countless lives.

Krishan Mridha, Sandesh Ghimire, Fitsum Getachew Tola, Shakil Sarkar, Nazmul Arefin

Link: [https://link.springer.com/chapter/10.1007/978-3-031-36402-0\\_27](https://link.springer.com/chapter/10.1007/978-3-031-36402-0_27)

## LANGUAGE SKILLS

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**Mother tongue(s):** Nepali



Other language(s):

**English**

**LISTENING C1 READING C1 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

**Hindi**

**LISTENING C1 READING B1 WRITING B1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

**DIGITAL SKILLS**

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Web development (HTML/CSS, JavaScript) / Experience with PHP, SQL, HTML, CSS, JavaScript / Node JS (Express.js and MongoDB) / React Frame Work / Machine Learning / Artificial Intelligence / GIT (Git Hub Git Bash) / Vs code / C , C++, C# programing