

Raj Kumar Khadka

Computer Engineering Graduate

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PROFESSIONAL SUMMARY

A Computer Engineer with strong analytical and problem-solving skills, experienced in data preprocessing, working with datasets, and basic predictive modeling. Skilled in Python, Excel, SQL, SEO and TensorFlow, with the ability to extract insights and communicate results clearly. Eager to apply data-driven skills to support real-world decision-making.

TECHNICAL SKILLS

Systems & IT Support

- Linux (Ubuntu), Windows OS
- System installation, configuration & troubleshooting
- Hardware installation & maintenance
- Software setup & deployment

Programming & Databases

- Python, C, C++, Java
- Bash Scripting (Basic)
- MySQL, MongoDB

Networking & Tools

- Basic networking (IP config, DHCP, routing)
- Git & Github
- Command Line (Linux & Windows)

Other Technical Skills

- Excel & data handling
- Basic predictive modeling
- Documentation & reporting

WORK EXPERIENCE

Lab Assistant

Nov 2025 – Present

Nepal Engineering College(NEC), Bhaktapur

- Assisted in laboratory setup, hardware installation, and routine equipment maintenance.
- Supported students with coding issues in Python, C, and data structures.
- Provided technical troubleshooting for software errors, system crashes, and network issues.
- Managed database management, embedded system labs, and operating system practical sessions.
- Ensured smooth functionality of lab devices and coordinated repair/maintenance when required.

Data Entry Associate

Dec 2021 – Mar 2022

Central Bureau of Statistics, Government of Nepal (GoN)

- Processed, validated, and digitized census datasets for national reporting.
- Collaborated with officials to ensure accurate dataset interpretation.

EDUCATION

Bachelor Of Computer Engineering

July 2021 - Aug 2025

Nepal Engineering College, Pokhara University

CGPA: 3.83

XII, NEB

Apr 2018 - May 2020

Viswa Niketan Secondary School, Tripureshwor, Kathmandu

CGPA: 3.30

PROJECTS

Ishara Setu - Nepali Sign Language Detection System

Jan 2025 – Aug 2025

- Collected and curated 13,500+ NSL video samples covering 51 sign classes, captured at 25 FPS under diverse lighting conditions using Python + OpenCV.
- Performed data preprocessing including frame extraction, normalization, and gesture-region filtering.
- Tools: Python, OpenCV, NumPy, Pandas, Matplotlib, TensorFlow, Keras, Jupyter Notebook, and OpenCV VideoCapture for data processing.

Notera - Notes Management System

March 2024 – Aug 2024

- Designed web platform for organizing academic notes.
- Tools: PHP, MySQL, XAMPP, HTML, CSS, JavaScript, and Bootstrap for web and database management.

FIELD EXPERIENCES

- Collection of Nepali Sign Language Datasets from Kathmandu Association of the Deaf (KAD) and National Federation of the Deaf Nepal for the Ishara Setu Nepali Sign Language Detection System project
- Study on Telecommunication System at Nepal Telecom, Kushma, Parbat District, Western Nepal
- Study on the Wire Production Process at a cable manufacturing plant in Pokhara, Western Nepal
- Study of Renewable Energy Generation and Turbine Maintenance at the Middle Marsyangdi Hydropower Station, Aanbu Khaireni, Tanahun District, Nepal.

AWARDS AND HONORS

Dean's List (2025) - Achieved 3.83 CGPA for outstanding academic performance in Computer Engineering.

Scholarship Award - Earned 4.0 SGPA in 4th, 6th, 7th, and 8th semesters for academic excellence.