

# Raj Kumar Khadka

## Computer Engineer

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### PROFESSIONAL SUMMARY

Computer Engineer with strong analytical and problem-solving skills, experienced in data preprocessing, dataset handling, and basic predictive modeling using Python, SQL, 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

#### Programming & Databases

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

#### Systems & IT Support

- Linux (Ubuntu), Windows OS
- System installation & configuration
- Hardware installation & maintenance

#### Networking & Tools

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

#### Quality Assurance Skills

- Basic Understanding of Manual Testing concepts
- Test case writing and execution
- Bug identification and reporting

### WORK EXPERIENCE

#### Lab Assistant

Nov 2025 – Present

Nepal Engineering College (NEC), Bhaktapur

- Supported 100+ students per semester by resolving coding issues in Python, C, and data structures during lab.
- Assisted in laboratory setup, hardware installation, and routine equipment maintenance.
- Provided technical troubleshooting for software errors, system crashes, and network issues.

#### 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.

### 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.
- Tech Stack: 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.
- Tech Stack: PHP, MySQL, XAMPP, HTML, CSS, JavaScript, and Bootstrap for web and database management.

### EDUCATION

#### Bachelor Of Computer Engineering

July 2021 - Aug 2025

Nepal Engineering College (NEC), Pokhara University

CGPA: 3.83

### 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.