

# Sandeep Bhusal

Kalanki, Kathmandu, Nepal

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## Career Objective

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Computer Engineering undergraduate dedicated to the fields of Data Science and Machine Learning. Combines analytical thinking with strong programming skills in Python to execute end-to-end data projects. Seeking an opportunity to apply academic research and technical capabilities to solve real-world challenges within a technology-driven organization.

## Education

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### Bachelor in Computer Engineering

2021 – Present

Advanced College of Engineering and Management,  
Institute of Engineering,  
Kalanki, Kathmandu

### School Leaving Certificate (SLC)

2021

Kathmandu Model Secondary School,  
National Examinations Board,  
Baghbazar, Kathmandu

### Secondary Education Examination (SEE)

2019

Tulasi Awasiya Ma. Vi.,  
National Examinations Board,  
Tulsipur, Dang

## Technical Skills

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**Programming Languages** C, C++, Python

**Web Technologies** HTML, CSS

**Database** MySQL

**Data Science & ML** Machine Learning, Deep Learning, NLP

## Soft Skills

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Communication, Leadership, Problem Solving, Adaptability, Interpersonal Skills, Critical Thinking, Time Management

## Academic Projects

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### Duplicate Question Pair Detection Using Siamese MaLSTM

*Programming Language: Python*

- Developed a semantic similarity system to identify duplicate questions using the Quora Question Pairs dataset.
- Implemented a Siamese Manhattan LSTM (MaLSTM) architecture with two identical LSTM subnetworks.
- Integrated pre-trained word embeddings (Word2Vec) to enhance semantic understanding.
- Used Manhattan distance (L1 norm) to compute semantic similarity between sentence representations.
- Achieved approximately 77% accuracy in detecting semantically equivalent question pairs.

## Experience

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### Intern – Load Dispatch Centre (LDC)

Dec 22, 2025 – Present

Syuchatar, Kathmandu

- Gaining practical exposure to industry-level operational workflows.
- Supporting data analysis.

## Interests and Hobbies

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Photography, Cooking, Designing