

# Anish Raj Manandhar

## CONTACT

**Phone:** +977 9865133345

**Email:**  
[anishmndhr02@gmail.com](mailto:anishmndhr02@gmail.com)

**Address:** 358-25 Triveni Marg, Kathmandu

**Portfolio:** [anishrajmanandhar.com.np](http://anishrajmanandhar.com.np)

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## PROJECTS

### Nepali Context-Aware Spelling Tool | 2024-2025

- Designed a Nepali spell checker integrating rule-based logic, POS tagging, and n-gram language modeling for context-sensitive error detection.
- Leveraged a transformer-based language model to enhance understanding of real-world errors and improve correction accuracy.
- Contributed to advancing NLP tools for low-resource languages by addressing grammatical and contextual challenges unique to Nepali.

### AI Based Bone Age Predictor | 2024

- Developed a deep learning model using convolutional neural networks (CNNs) to estimate bone age from pediatric hand X-ray images.
- Engineered an end-to-end pipeline for image normalization, augmentation, and model optimization using Python and TensorFlow.
- Integrated Grad-CAM visualization to interpret model predictions and highlight regions influencing bone age estimation.

### Vertex Hacks (Organizing Committee) | 2022-2022

- Collaborated with different teams to provide necessary resources and ensure logistical operations aligned with event timelines.
  - Contributed to planning and executing promotional campaigns to increase event visibility and attract participants.
  - Collaborated across teams—including logistics, design, and outreach—to contribute to a smooth and impactful hackathon experience.
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## EDUCATION

### IOE, Thapathali Campus, Thapathali, Kathmandu | 2021-2025

Bachelor in Computer Engineering

### St. Xavier's College, Maitighar, Kathmandu | 2018-2020

Ten Plus Two (+2) Science

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## SKILLS & INTERESTS

### Skills:

C/C++, Python, Streamlit, Data Mining,  
CNN, NLP, AI/ML

### Interests:

AI/ML, Editing