

Gaurav Parajuli

Färbergasse, Steyr, Austria | Email | LinkedIn | Github |

Education

Johannes Kepler University

Masters in Artificial Intelligence

Linz, Austria

March 2025 - Present

Kathmandu University

Bachelors in Engineering

Dhulikhel, Nepal

June 2022

Publication(s)

1. "Querying GI Endoscopy Images: A VQA Approach"**accepted** at ImageCLEFMedical at CLEF 2025.[Github]

Experience

Omdena Inc

Remote

Machine Learning Engineer

Jan 2025 - Apr 2025

- Volunteered for implementation of Object Detection and Instance Segmentation model for pothole(s) detection.

Open Learning Exchange Nepal

Lalitpur, Nepal

Machine Learning Engineer

Jan 2024 – Aug 2024

- Implemented OCR algorithms to extract textual data from scanned documents and convert them to .docx format.
- Designed comprehensive data annotation rules, increasing Page Object Detection (POD) model precision from ~80% to 88.3%.
- Implemented tabular data extraction and table structure reconstruction from images of complex tables, achieving 87% accuracy.
- Built a custom data annotation tool for table images in PubTabNet format using PyQT.
- Created synthetic data generation scripts for various machine learning tasks.
- Reduced overall document conversion time by 55%.
- Prototyped a recommendation system for a learning platform, providing personalized content suggestions.
- Development of REST API's for ML System Backend.

Blanxer Technology Private Limited

Bhaktapur, Nepal

Software Engineer

Mar 2023 – Jan 2024

- Implemented RESTful APIs using flask and djangoREST framework for seamless data exchange between server and client
- Wrote unit tests to ensure code quality
- API Documentation

Honors and Awards

1. First Position in Coding Competition organized by Kathmandu University Computer Club, 2017.

Open Source Contributions

1. Pybboxes v0.2.0: Added support for annotation file formats conversions within YOLO, COCO and VOC. [PR]

Skills

Python, Flask, HuggingFace, PostgreSQL, PyTorch, Sci-kit Learn