Gaurav Parajuli

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Education

Johannes Kepler University Linz, Austria
Masters in Artificial Intelligence March 2025 - 2027(Expected)
Kathmandu University Dhulikhel, Nepal
Bachelors in Mechanical and Hydropower Engineering June 2022

Publication(s)

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

Experience

Open Learning Exchange Nepal Lalitpur, Nepal
Machine Learning Engineer Jan 2024 – Aug 2024
- Developed OCR and Page Object Detection (POD) models using PyTorch, improving precision from 80% to 88.3%.
- Designed tabular data extraction OCR algorithms, achieving 87% accuracy for complex table reconstruction.
- Built a custom PyQT-based data annotation tool for table images in PubTabNet format.
- Created REST APIs for ML system backend using Flask, reducing document conversion time by 55% by leveraging parallel processing techniques.
- Prototyped a recommendation system (for a learning platform website) for personalized learning content in a Scrum-based team.

Blanxer Technology Private Limited Bhaktapur, Nepal
Software Engineer Mar 2023 – Jan 2024
- Developed RESTful APIs using Flask and Django REST Framework, ensuring seamless data exchange.
- Applied Clean Code principles and design patterns (e.g., Singleton, Factory) to enhance code maintainability.
- Wrote unit tests to ensure robust code quality and documented APIs for team collaboration.

Honors and Awards

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

Open Source Contributions

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

Skills

Programming: Python, FastAPI, Flask, Django REST Framework, LaTeX
Machine Learning: PyTorch, Scikit-learn, HuggingFace
Tools: Docker, AWS, PostgreSQL, Git
Methodologies: Clean Code, Design Patterns (Singleton, Factory), Scrum
Languages: Nepali (Native), English (C1), German (A1)

References

Sanish Dangol
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Product Manager
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