

Rojan Dahal
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Erie, PA

EDUCATION

Gannon University, Erie, PA, USA Master of Science in Computer and Information Science Major: Data Science Grade: GPA 4	Dec 2025
London Metropolitan University, Nepal Bachelor of Science (Hons.) Computing Grade First Class Honors	Dec 2021

WORK EXPERIENCE

Gannon University, Erie, PA, USA <i>Student Research Assistant</i>	Jan 2024 – May 2024
<ul style="list-style-type: none">• Assisted in data preparation and cleansing for a Convolutional Neural Network (CNN) model aimed at improving surface leveling on metal 3D printers, enhancing printing quality and reducing waste.• Documented research methodologies and findings, providing clear and concise reports for project continuity.• Worked closely with faculty mentors, gaining hands-on experience in data processing and real-world machine learning applications.	

BitsKraft Pvt. Ltd., Kathmandu, Nepal <i>AI/ML Engineer</i>	Nov 2021 – Nov 2023
<ul style="list-style-type: none">• Developed and deployed AI models using machine learning frameworks (TensorFlow, PyTorch) to enhance business intelligence and analytics efforts.• Build and maintained Python-based REST API for document classification, facilitation seamless integration into third party platforms like video banking and workflow managements systems.• Led data preparation and cleansing for face analytics projects, ensuring high-quality inputs for AI models achieving 95% accuracy in face verification.• Achieved a 90% accuracy rate in bank cheques signature verification by training an AI model using YOLOv5, resulting in reduced false positive and enhanced security.• Designed and developed a POS device for notification purposes post-payment transactions via QR codes, integrating with digital wallets or mobile banking, resulting in a 30% increase in transaction efficiency.• Developed an OCR-based document extraction web solution supporting multiple data types, automating data extraction through defined document templates.	

Samadhan Engineering, Kathmandu, Nepal <i>Machine Learning Intern</i>	Aug 2020 – Nov 2020
<ul style="list-style-type: none">• Engineered an advanced road lane detection system with real-time curvature calculations and vehicle detection.• Participated in data preparation for road lane detection systems, contributing to the successful implementation of AI-based autopilot functionality within a simulator's racetrack environments.	

ACADEMIC PROJECTS

- PDF-based RAG Chat Assistant using Vector Storage and LLMs** July 2024
- Developed a Retrieval-Augmented Generation (RAG) chat assistant to query PDF documents, utilizing data embedding techniques and vector storage.
 - Focused on data processing for efficient querying and response accuracy.
- LinkedIn Profile Scraping Tool using LLMs** July 2024
- Developed a Retrieval-Augmented Generation (RAG) chat assistant to query PDF documents, utilizing data embedding techniques and vector storage.
 - Focused on data processing for efficient querying and response accuracy.
- Feature Toggle Detection using LLMs** June 2024
- Developed a Retrieval-Augmented Generation (RAG) chat assistant to query PDF documents, utilizing data embedding techniques and vector storage.
 - Focused on data processing for efficient querying and response accuracy.
- College Inquiry Chatbot (Final Year Project)** Mar 2021
- Developed a chatbot utilizing AIML and NLP techniques to address college-related inquiries.
 - Implemented Wu-Palmer Similarity for accurate sentence matching between user input and responses.

SKILLS

Python, Java, HTML/CSS, JavaScript R, SQL, ReactJS, Flask, FastAPI, Bootstrap, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Scikit-learn, NLP, RoboFlow, MySQL, MongoDB, SQLite, Visual Studio Code, PyCharm, IntelliJ, Git and GitHub, Docker.

LANGUAGES

English, Nepali, and Hindi

AWARDS AND CERTIFICATIONS

- Full Stack Data Science Course – Become a Data Scientist (Udemy)** Jan 2022
- Machine Learning (Coursera)** Dec 2022
- LangChain- Develop LLM powered applications with LangChain (Udemy)** July 2024

VOLUNTEER AND ORGANIZATIONAL EXPERIENCE

- Event Organization & Team Lead, IIC Spring Carnival** Apr 2019
- Coordinated logistics, scheduling, and team efforts to deliver successful events, showcasing leadership and organizational skills.
- Project Showcase Participant, IIC Industrial Fair** Oct 2021
- Effectively communicated project objectives and achievements to industry professionals and attendees, fostering meaningful connections.