

YUGRATNA HUMAGAIN

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EDUCATION

Bachelors in Computer Engineering

Thapathali Campus, IOE, TU

2021 - 2025

Kathmandu, Nepal

High School

United Academy

2018 - 2020

Lalitpur, Nepal

SKILLS SUMMARY

| | |
|--------------------------------|--|
| AI and Machine Learning | : Supervised, Unsupervised, Reinforcement Learning, LLMs |
| Libraries and Framework | : Pandas, Numpy, TensorFlow, PyTorch, OpenCV |
| Languages | : Python, JavaScript, C++, C |
| Web Development | : HTML, CSS, JavaScript |
| Miscellaneous | : MS Word, Excel, PowerPoint |
| Soft Skills | : Problem Solving, Communication, Critical Thinking, Time Management |

EXPERIENCE

AI Fellowship 2024 | Fusemachines | Kathmandu, Nepal

Apr 2024 - Oct 2024

- Learnt and implemented machine learning techniques like regression, classification, and reinforcement learning along with working with LLMs,
- Object detection, image segmentation, and NLP tasks like text extraction, NER, and sentiment analysis,
- Built and trained neural networks (CNNs, RNNs, GANs), and learned to deploy, monitor, and manage models in production.

PROJECTS

Responsive Crime Monitoring and Instant Classification Utilizing AI on Live CCTV Feeds

Focuses on detecting and classifying violent activities in real-time video frames leveraging deep learning models, including ResNet18 combined with LSTM for classification and YOLOv8 for object detection, to analyze and identify potential violent events in video streams.

'Presentify'- Research Paper Slide Generator

Provides a web application for crafting and rendering research presentations in the computer science domain. With real-time slide previews and seamless integration for exporting to PPTX format, the tool prioritizes simplicity and efficiency, enabling users to create shareable presentations directly in their browser.

ACHIEVEMENTS

2nd Place | Advent of Multimodal AI Hackathon Global Virtual Event

Built AI Custom Manga Generator, Platform specific Social Media Post Generator, Custom Greetings Cards Generator as a part of the 3-day hackathon challenges using multimodal AI.

CERTIFICATIONS

Python for Data Science, AI & Development

May 2023

Skills: Data Analysis, Machine Learning Basics, AI and Development Tools

IBM

Machine Learning Specialization

July 2024

Skills: Supervised Learning (linear & logistic regression, decision trees), Unsupervised learning (clustering, anomaly detection), Recommender systems, and Reinforcement learning

DeepLearning.AI

Python Data Associate certificate

Nov 2024

Skills: Python Programming, Data Manipulation, Exploratory Data Analysis, Data Visualization, Data Cleaning

Data Camp