

# Jivan Acharya

Bachelor in Computer Engineering  
*(8th Semester)*  
IOE Thapathali Campus



## Experience

### AI Fellowship ( Fusemachines )

- Learnt and implemented different ML and DL models
- Learnt about computer vision, LLMs and Generative AI

### Research Advocate (Tensor IOE Thapathali)

- Collaborative research paper discussion sessions
- Conducting and managing sessions on Python and AI/ML

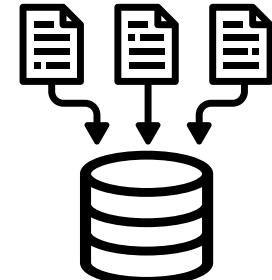
## Key Skills

- AI and Machine Learning (Supervised, Unsupervised, Generative AI, LLMs)
- Frameworks: Pandas, Numpy, TensorFlow, PyTorch, Langchain
- Languages: Python, C, C++, SQL
- Soft Skills: Problem Solving, Communication, Critical Thinking,

## Certifications

- Complete Guide to Building, Deploying, and Optimizing Generative AI with Langchain and Huggingface
- Neural Networks (DeepLearning.AI)
- Machine Learning Specialization (DeepLearning.AI)

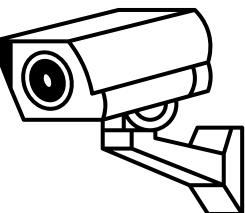
# Projects



## Synthetic Data Generation

Comparing the performance between real and synthetic data

Utilizing different methods of synthetic tabular data generation such as CTGAN, Transformers and Diffusion Models



## Responsive Crime Monitoring and Instant Classification

Real-time classification of violent activities using ResNet18 and YOLOv8.

Focus on leveraging AI for live CCTV feed monitoring to enhance security systems



## 'GHADI'

A 3D Watch Customizer App with Augmented Reality

Using Unity Engine along with C# for scripting with Vuforia SDK to implement the AR try on for the mobile application.

# Project Synopsis

## Problem Statement

- Significant number of students aspiring to pursue higher education abroad.
- Current process is tedious, involving multiple visits to consultancies, high consultation fees, and a lack of transparent guidance.
- No streamlined resource to ease up the process of studying



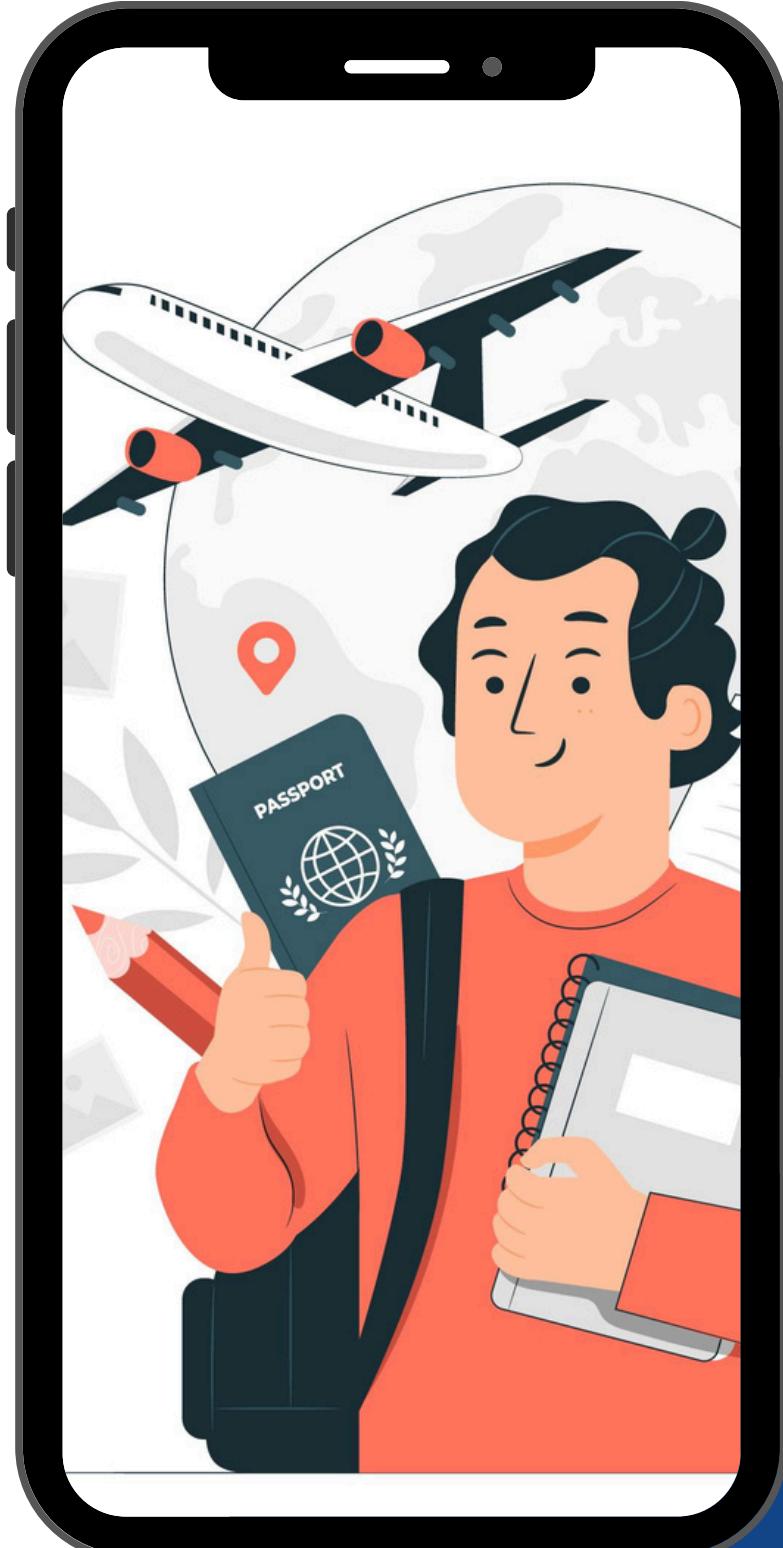
# AI-Chatbot Simplifying Study Abroad Processes in Nepal

## Objective

- Provides personalized guidance to students about universities, courses, and scholarships.
- Reduces dependency on expensive consultancy services by offering free or affordable AI-driven solutions.

## Features

- Chat based interface for searching and querying university their courses and scholarship schemes.
- Document preparation tools (SOP reviews, checklist generators).



## Feasibility Study

- Focusing on a single country primarily
- Data collection through ranking websites, Kaggle datasets, university websites
- Open source LLMs such as Deepseek, frameworks such as Langchain, agentic frameworks such as CrewAI, SmolaAgents
- Retrieval Augmented Generation approach for updated and relevant information retrieval



## Enhancements

- Real-time updates about scholarships and financial aid programs.
- Visa process tracking integration
- Multi Language support



# Expectations from the Internship

- Networking opportunities along with expert mentorship.
- Exposure to industry best practices in AI and software development.
- Learning of deployment of AI models in production environment
- Guidance on proper ideation and implementation of projects.

**THANK YOU**