

Ruja Awal

Highly motivated and enthusiastic Computer Engineer with a strong passion in machine learning and data engineering. Looking for an opportunity to contribute and excel in ML.

EXPERIENCE

Programiz — Associate Technical Blog Writer

December 2023 - Present

Treeleaf Technologies — Trainee

July 2023 - September 2023

- Expertly implemented core concepts of Django and FastAPI, including function-based and class-based views to create efficient and maintainable web applications.
- Project Iris Biometric
- Project Photo Album
 - A web app where you can add your photo album with multiple images with configurable uploaded file save path and file type and file size validation.
 - Also, the download feature of individual images and the whole album as a zip in fly is implemented alongside updating of photo albums.

Code Rush Data Engineering — Apprentice

November 2022 - May 2023

- Learned about ETL process and creating data engineering pipelines with hands-on projects like “Sports News Web Scraping and Visualization”, “Stock Price Notification” and “Visualization of real time covid statistics of the world and Nepal”.
- Learned about the core concepts of Data Engineering, Big Data, Python and AWS.

Fuse Machines AI Fellowship — 2022 Fellow

March 2022 - August 2022

- Successfully completed the AI Fellowship Machine Learning Program with the final grades of 77.26% honors.
- Learned the core concepts of Machine Learning and data science.

Third Winter School in AI

December 20 - December 30, 2021

Actively participated in an intensive 10 day winter school on AI, Computer Vision and Machine Learning conducted by NAAMII.

SKILLS

Python

OpenCV, Pandas, Matplotlib

Selenium

Django, Flask

Data Structure and Algorithm

MySQL

ACTIVITIES

Ambassador at Girls in Tech - Nepal for Core Team 2023 for the role of Chapter Relation Manager.

Vice President of 19th Executive Committee of Engineering Students' Group of Bhaktapur.

LOCUS 2023

- Involved in tutoring during Children in Tech and Internet Safety Campaign at the rural parts of Chitwan.
- Organizer of LOCUS Hack-A-Week 2023.
- Volunteered in a 10 days long Software Fellowship.

EDUCATION

Pulchowk Campus, Lalitpur — Bachelor in Computer Engineering

November 2018 - April 2023

Capital College and Research Center, Kathmandu — +2 Science

2016 - 2018

A | 3.48

Himalayan English Secondary School — SLC

A+ | 3.95

PROJECTS

Iris Biometric

- Developed for Nepal Police to maintain the biometric database of detainees.
- Involved in designing the database schema and development of API endpoints.
- Testing and Quality Assurance of those API endpoints.

Faculty Publication Management System

- A web application where all the research papers on the Internet of the faculty members are stored in their respective accounts through automation using web scraping.
- The Faculty Evaluation System is implemented.
- Worked in scraping of research paper citations from different websites.

Mathematical Handwritten Equation Recognizer

- Web application which takes input an image of mathematical equations and gives output the equation in the standard mathematical form.
- Worked in image segmentation and training the model.

Covid Infometer

- A web application for the visualization of real time covid statistics of the world and nepal for easy access to reliable information regarding covid.
- Frameworks: Flask, Selenium, John Hopkins APIs and Worldometer.

Scraping of Sports News and Visualization of Data

- Collected data from sports sources, cleaned the collected data using a pre-processing algorithm and visualized the data with matplotlib.
- Tools and Frameworks used: BeautifulSoup, Pandas, Matplotlib.