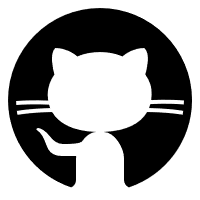
**Prakriti Thapa** +977 9864236525

Koteshwor-32,KTMtprakrity@gmail.com



**Professional Links:**

<https://www.linkedin.com/in/prakkks/> <https://github.com/Prakkks/>



**Professional Overview:**

I completed my Bachelor's in Electronics, Communication and Information Engineering and developed a strong interest in Data Science and Artificial Intelligence. I have gained skills in Python, SQL, data preprocessing, and model training, and I’m eager to grow in the field of data science by working on real-world, data-driven projects.



**Education:**

Kantipur Engineering College **BE. Electronics Communication and IT** *2020 –2025*

Nepal Police School, Sanga **Higher Secondary Examination ,12th** *2018 -2020*



**Projects:**

* **Virtual Eyewear Try-On System:**  
  Developed a machine learning-based web application that enables users to virtually try on eyewear and classify face shapes in real time. Trained a custom VGG16 model using transfer learning to classify face shapes accurately, utilized pre-trained MediaPipe for facial landmark detection, used OpenCV for image processing and alignment of eyewear to facial features, built RESTful APIs with Flask for frontend-backend integration.

*Technologies: Python, TensorFlow, MediaPipe, OpenCV, Flask, VGG-16, MTCNN*

* **YOLO-Based Image Classification System:**Built a real-time object detection system using YOLOv5, fine-tuned on a custom dataset. Annotated and curated dataset manually for training, Handled model training using PyTorch and integrated with OpenCV for visualization, Showcased an understanding of model optimization, data pipelines, and deployment.

*Technologies: Python, YOLOv5, OpenCV, PyTorch, NumPy*

* **Web Scraping Automation for YouTube Downloads and News Links**  
  Built a Python-based automation tool using web scraping and scripting to streamline tasks like downloading YouTube videos and extracting news article links. Used libraries like BeautifulSoup, Selenium, and pytube to navigate dynamic web pages, parse content, and automate downloads. Enabled efficient data collection and media handling with minimal user input.

*Technologies: Python, BeautifulSoup, Selenium, pytube*



**Skills Summary:**

* **Programming Languages:** Python, SQL, JavaScript
* **Data Engineering:** Data Pipelines, ETL, SQL Queries
* **Tools & Frameworks:** Pandas, NumPy, OpenCV, Flask, PyTorch, TensorFlow
* **Cloud & DevOps:** AWS , Git, REST APIs
* **Web Scraping & Automation:** Selenium, BeautifulSoup, pytube
* **Other Skills:** Data Cleaning, Visualization, MediaPipe, YOLO, VGG16
* **Soft Skills:** Communication, Teamwork, Problem-solving, Fast Learner



**Training and Workshop:**

* **Data Science with Python** *– Evolve IT Hub Nepal (Sep 2024 – Nov 2024) Training-based program covering:*
  + *Python programming*
  + *Data preprocessing, model training (from scratch & using pre-trained models)*
  + *Exploratory data analysis and visualization*
  + *Introduction to machine learning algorithms and pipeline design*
* **Software Fellowship** *– LOCUS 2024, Pulchowk Campus (June – July 2024)*
  + *Object-Oriented Programming, ML model implementation*
  + *Deployment techniques, REST APIs, basic full-stack web apps*
* **AWS Cloud Club Nepal Cohort-I**  *(Aug – Sep 2024)*
  + *Training in foundational AWS services: EC2, S3, IAM*
  + *Basics of cloud architecture, data storage, and deployment pipelines*



**Internship Experience:**

* **Data Science Intern** *Index IT Hub Nepal, Kathmandu, Nepal* December 2024 – February 2025
  + *Assisted in data preprocessing, cleaning, and exploratory data analysis using Python (Pandas, NumPy, Matplotlib, Seaborn).*
  + *Worked on building and evaluating machine learning models using Scikit-learn for classification and regression tasks***.**



**Participation and Certifications:**

* **Become a Python Master** – Programiz [ <https://programiz.pro/certificates/BDB509F19222> ]
* **Master DSA with Python**  – Programiz [ <https://programiz.pro/certificates/549784EAA0C8> ]
* Attended the **Google I/O Extended 2024** event, gaining insights into the latest innovations and trends in technology, development, and AI during the Google I/O Extended 2024 season.
* Completed the **'Learn about Artificial Intelligence'** challenge with Microsoft Learn Student Ambassador, 2024 and gained advanced AI skills and knowledge.
* Participated in **Hack-a-Lite**, a 30-hour hackathon held at Kantipur Engineering College in February 2024, showcasing creativity, teamwork, and problem-solving skills.
* Completed with the **AWS Fellowship Cohort 1.0**, organized by AWS Cloud Club Nepal.
* Participated at “CodeWars” for Hex-2023 held on July 21st 2023.
* Winner of “**Software Competition**” for HEx-2023 held on July 20th 2023.

