

RAMKRISHNA ACHARYA

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Experience

Freelancer

Jan 2022 – Now

Upwork.com

Remote

- As a Top Rated Freelancer, I am helping clients turn their data applications to life.
- Technologies Using: Python, FastAPI, Streamlit, MySQL, Asyncio, Websockets, Git

Associate Data Scientist

Aug 2021 – Aug 2022

Extensodata Pvt. Ltd.

Kathmandu, Nepal

- Built a backbone for BI to automate, data pipelining, analysis, and reporting of fintech data for business stakeholders to make timely customer decisions.
- Technologies Used: Python, MySQL, Pentaho, Apache Airflow, Apache Superset, Git

Junior Machine Learning Engineer

Jan 2021 – May 2021

Ensemble-Matrix

Kathmandu, Nepal

- Designed an algorithm to create a synthetic signature to train a model to classify between real and synthetic handwritten signatures.
- Applied Run Length Encoding to compress the image size by high ratio.
- Technologies Used: Python, Google Colab, OpenCV, Keras, Docker, Git

Unity3D Intern

Nov 2020 – Mar 2021

diyo.ai

Kathmandu, Nepal

- Designed and built a user flow for an application to improve clients' jewelry business using Augmented Reality.
- Technologies Used: Unity3D, Git

Asst. AI Instructor

Nov 2019 – Feb 2020

MPercept Academy

Kathmandu, Nepal

- Helped students get into the Computer Vision domain by understanding image processing.

AI Developer Intern

Aug 2019 – Jan 2020

MPercept Technology

Kathmandu, Nepal

- Developed, and maintained conversational agents for platforms like e-commerce, travel agency, and academic consultancy.
- Technologies Used: Python, Rasa, OpenCV, Google Colab, AWS EC2, Git

Education

FAU Erlangen-Nuremberg

Germany

M.Sc. Data Science

2022 –

- Taking courses like Deep Learning, AI, and Pattern Recognition.

Tribhuvan University

Nepal

B.Sc. Computer Science and Information Technology

2015 – 2019

- First Division, 72.07/100
- Courses: Probability and Statistics, Artificial Intelligence, Neural Networks, Advanced Java Programming etc.

Higher Secondary Education Board

Nepal

Science

June 2012 – 2015

- First Division, 65.7/100
- Courses: Physics, Chemistry, Mathematics etc.

Research and Projects

7 Days of Computer Vision Projects | Python, Mediapipe, OpenCV

- Done 7 projects like real-time background changing, gesture writing, playing games using gestures, and gesture-based calculator.
- Wrote blogs at my GitHub page.

Corn Leaf Infection Detection | Python, Google Colab, OpenCV

- Collected 4000 corn leaf images from the corn fields and made annotated data public on **Kaggle**.
- Using the YOLO model for training.
- Writing a blog at my GitHub page.

NEPSE Data Visualization | Python, Pandas, BeautifulSoup, Streamlit

- Wrote Python codes to scrape data from NEPSE (Nepal Stock Exchange) website and visualize in realtime.
- Wrote a blog at **my GitHub page**.

Contour Based Visually Writing System | Python, Jupyter Notebook, OpenCV

- Wrote Python codes to perform air drawing along with added visual user interface.
- Wrote a blog at **my GitHub page**.

Face Mask Classification | Python, OpenCV, Keras, Heroku

- Wrote Python codes to detect faces and classify whether a face has a mask or not.
- Wrote a blog at **my GitHub page**.

Devanagari Handwritten Word/Char Detection | Python, Keras, Google Colab, OpenCV

- Used CNN model as a classifier and NumPy to segment characters within a word.
- Wrote a blog at **my GitHub page**.

Extracurricular Activities

Mentor Aug 2020

Blogging with GitHub page @ Hetauda School of Management and Social Sciences

- Gave a talk to 40+ students remotely about how to get started with GitHub and GitHub pages.

Mentor Aug 2020

Deploying Computer Vision Model @ Girlsript Agartala

- Gave a talk to students remotely about how to deploy computer vision models on Heroku.

Mentor Dec 2019

3 Days Intensive Boot Camp in AI @ Prime ICT Club

- Gave a brief talk to 40+ students about basic Image Processing to simple Convolutional Neural Networks.

Mentor Sept 2019

2 Days Intensive Boot Camp in Computer Vision @ Mpercept Technology

- Gave a talk to students about basic Image Processing to simple Convolutional Neural Networks.

Skills

Languages: Python, C-sharp, C/C++ , HTML, Java

Database: MySQL

Frameworks: Aiflow, Tensorflow, Pandas, Flask, OpenCV, Rasa, Mediapipe

Human Languages: Nepali, English, Hindi

Developer Tools: Unity3D, Docker, Jupyter Notebooks, Git, Google Colaboratory, VS Code, Heroku, AWS

Blogging: q-viper.github.io

YouTube Content Creation: [DataQoil](#)