

RAMKRISHNA ACHARYA

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Experience

Associate Data Scientist Engineer

Aug 2021 – Present

eXtenso Data

Kathmandu, Nepal

- Doing data analysis on financial domain data to find best features for FoneLoan.
- Automate report and data pipeline.

Junior Machine Learning Engineer

Jan 2021 – May 2021

Ensemble-Matrix

Kathmandu, Nepal

- Designed and built a machine learning model to predict bank cheque signature's authenticity with high accuracy.
- Designed an algorithm to generate a forged signature from genuine.
- Applied different lossless algorithms to compress the image size by high ratio.

Unity3D Intern

Nov 2020 – Mar 2021

diyo.ai

Kathmandu, Nepal

- Designed and built an application to improve client's jewellery business using Augmented Reality.
- Implemented features like sharing, saving, deleting and viewing image.

Asst. AI Instructor

Nov 2019 – Feb 2020

Mpercept Academy

Kathmandu, Nepal

- Helped students in getting started with AI.
- Gave some talks on events.

AI Developer Intern

Aug 2019 – Feb 2020

Mpercept Technology

Kathmandu, Nepal

- Designed, developed and maintained conversational agent for platforms like e-commerce, travel agency and academic consultancy.
- Designed a model to calculate speed of moving cars using Computer Vision.
- Found valuable insights of client's HVAC user data.

Skills

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

Database: SQL

Frameworks: 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: [Data Coil](#)

Education

Tribhuvan University

Nepal

B.Sc. Computer Science and Information Technology

2015 – 2019

- First Division, 72.02/100
- Courses: Probability and Statistics, Artificial Intelligence, Neural Networks, Advanced Java Programming etc.

Higher Secondary Education Board

Nepal

Science

June 2012 – 2015

- First Division, 65.07/100
- Courses: Physics, Chemistry, Mathematics etc.

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 getting 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.
 - Performed a project **Face Mask Classification** from Scratch.
- 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.

Projects

- Weather Mailer** | Python, Twilio, Heroku
- Sends weather information of up to 48 hours in e-mail and phone.
 - Sends weather message once a day.
- Nepali News Classification** | Python, BeautifulSoup
- Scraped news title, content, author and category from popular news portals and stored as CSV file.
- Corn Infection Detection** | Python, Google Colab
- Collected 4000 corn leaf images from corn field and made annotated data public on **Kaggle**.
 - Using YOLO model for training.
 - Writing a blog at my GitHub page.
- NEPSE Data Visualization** | Python, Pandas, BeautifulSoup, Streamlit
- Wrote a Python codes to scrape data from NEPSE (Nepal Stock Exchange) website and visualize on realtime.
 - Wrote a blog at **my GitHub page**.
- Contour Based Game: Break the Bricks** | Python, Jupyter Notebook, OpenCV 2020
- Made a classic game using OpenCV and Python.
 - Written a blog at **my GitHub page**.
- Contour Based Visually Writing System** | Python, Jupyter Notebook, OpenCV
- Wrote a Python code to write on canvas by moving fingers in front of the camera.
 - Wrote a blog at **my GitHub page**.
- Face Mask Classification** | Python, OpenCV, Heroku
- Wrote a Python codes to detect face and classify whether a face have mask or not.
 - Wrote a blog at **my GitHub page**.
- Deep Learning Projects** | Python, Jupyter Notebook, AWS
- Completed as the part of Udacity's Deep Learning Nanodegree Course.
- Devanagari Handwritten Word/Char Detection** | Python, Google Colab, OpenCV
- Achieved high accuracy using Convolutional Neural Networks.
 - Leded the project and wrote an initial system code.