

RAMKRISHNA ACHARYA

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Experience

Associate Data Scientist Engineer

Aug 2021 – Aug 2022

Extensodata Pvt. Ltd.

Kathmandu, Nepal

- Done data analysis on financial domain data to find best insights.
- Built an Intelligence System to visualize performance of loans for stake holders to take timely 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 signature.
- Designed and built a machine learning model to predict bank cheque signature's authenticity with high accuracy.
- Applied Run Length Encoding to compress the image size by high ratio.
- Technologies Using: Python, Google Colab, OpenCV, Keras, Docker, Git

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 UI features like sharing, saving, deleting and viewing captured image.
- Technologies Using: Unity3D, Git

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.
- Technologies Using: Python, Rasa, OpenCV, Google Colab, AWS EC2, Git

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.

Research and Projects

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

- Done projects like realtime background changing, gesture writing, playing games using gestures, gesture calculator.
- Writing a blog at my [GitHub page](#).

Corn Leaf Infection Detection | Python, Google Colab, OpenCV

- 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 Visually Writing System | Python, Jupyter Notebook, OpenCV

- Wrote a Python code to write on canvas by moving fingers in front of the camera.
- Made animations and User Interface within a OpenCV frame.
- Wrote a blog at [my GitHub page](#).

Face Mask Classification | Python, OpenCV, Heroku

- Wrote Python codes to detect face and classify whether a face have mask or not.
- Wrote a blog at [my GitHub page](#).

Devanagari Handwritten Word/Char Detection | Python, 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 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.

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: [DataQoil](#)