

Diwakar Basnet

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EDUCATION

Bachelors of Science in Computer Science and Information Technology

2019 - 2024

Madan Bhandari Memorial College

Kathmandu, Nepal

- Areas of Interest: Statistics, Calculus, Artificial Intelligence and Machine Learning

SKILLS

- **Programming Languages:** Python, C++, C, JavaScript.
- **Technologies:** Transformers, Tensorflow, PyTorch, Keras, Scikit-learn, NumPy, Pandas, Matplotlib, Transformers, Seaborn, OpenCV, AWS EC2, AWS S3, SQL, Git, Github.
- **Languages:** Nepali, English, Hindi.

PERSONAL PROJECTS

Neural Machine Translation

- Implemented language translation between english and indigenous language by fine tuning **M2M100_418** model and training custom tokenizer using **transformers**.
- Created a custom parallel translation dataset from web and social media.

Style Transfer

- Created a **neural style transfer** model using **VGG-19** model implemented with Tensorflow.

Gif Recommender

- Enacted a robust desktop application that utilizes **computer vision algorithms** to analyze user images and live video feeds in real-time, accurately detecting emotions and providing personalized recommendations for relevant GIFs via the GIPHY API.

Cat and Dog Classifier

- Developed a **Convolutional Neural Network model** using **Keras** to detect and classify cat and dog images with 80% accuracy, the model was trained on a dataset of 10,000+ images.

Loan Prediction

- Orchestrated a simple loan prediction model using AWS services such as S3, SageMaker, etc. The model was conceptualized using the **linear learner algorithm** in **SageMaker**.

Computer Vision

- Leveraged the powerful **OpenCV** library to develop and implement a suite of advanced computer vision programs, using sophisticated algorithms such as **Haar Cascade** and **Mediapipe**, resulting in precise and effective solutions for real-world applications.

CERTIFICATE AND BADGES

- AWS Academy Graduate - AWS Academy Cloud Foundations - Nov, 2021
- AWS Academy Graduate - AWS Academy Machine Learning Foundations - Feb, 2022
- Genese Academy - Completion of AWS AI/ML Interestship training - Mar, 2022
- Coursera - Deep Learning Specialization - Convolutional Neural Networks - Mar, 2023