

Portland, Oregon, USA

□ (+1) 564-888-3396 | ☑ diwaspandey524@gmail.com | ♠ www.diwaspandey.com.np | ☑ diwas524 | 🛅 diwas524

Education

M.S. in Computer Science

Washington State University

08/2022 - 05/2024 (expected)

SALMON CREEK, WASHINGTON

Current GPA: 4.00

Relevant Courses: Artificial Intelligence, Machine Learning, Neural Network, Computer Vision

B.E. in Computer Engineering

Tribhuvan University, Nepal

KATHMANDU, NEPAL

10/2016 - 05/2021

Grade:79.09%, Full Scholarship Awardee (2016-2021)

Capstone Project: Real-Time Number Plate Recognition System using Computer Vision

Experience _____

Graduate Research: Thesis (Bio-Markers on ECG Data)

Washington State University

SALMON CREEK, WASHINGTON

08/2022 - Present

- Led research on individual identification through ECG data, focusing on optimizing R-peaks detection and enhancing pre-processing techniques
- Implemented methodologies from research papers evaluating outcomes in comparison to established methods
- PlexNet: Utilized transfer learning and ensemble methodologies to outperform CNN-based approaches
- Further research involves Python analysis on diverse activities to refine Pytorch model

Team Lead, Machine Learning Engineer Level II

Bottle Technology, Pvt. Ltd.

JHAMSIKHEL, LALITPUR NEPAL

11/2020 - 06/2022

- Led a research project on enhancing Nepali Citizenship data, employing OCR and NER techniques
- Implemented Smart Advertisement system for ad viewership analysis, utilizing pedestrian and vehicle detection
- Released a rule-based transliteration PyPI package 'Nepali-to-Roman' and deployed a Restful API on AWS EC2 Docker

Founder Admin & Content Writer

aihubprojects.com

KATHMANDU NEPAL

11/2019 - Present

- Authored a book on Machine Learning algorithms and Python with scratch implementations
- Published articles and tutorials on Python, ML, NLP, and Computer Vision, collaborating with institutions like VIT Vellore and IIT Bangalore, India

Machine Learning Projects

River Network Extraction From Satellite Images

USED PYTHON, OPENCV, U-NET, AND ATTENTION U-NET ON 18,000+ SATELLITE IMAGES

Fake License Plate Generation

PYTHON, OPENCV, GAN | GENERATED ANNOTATED LICENSE PLATE IMAGES USING GANS

Technical Proficiencies

Programming Language Python, C++

Al Tools Scikit-learn, OpenCV, PyTorch, Numpy, Pandas, Matplotlib

Expertise Computer Vision, Convolutional Neural Network(CNN), Machine Learning Algorithms

AWS Services EC2, S3, Sagemaker, AWS Rekognition, AWS Lambda

IDE Visual Studio, Jupyter Notebook, Google Colab, Sagemaker

Back-end Flask API, FAST API **Languages** English, Nepali, Hindi