

# BISHWA KARKI

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## EDUCATION

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### University of Nebraska Omaha, USA

2022-Present

Masters in Computer Science(AI Specialization)

### Paschimanchal Campus, Institute of Engineering, Tribhuvan University

2015-2019

Bachelor of Computer Engineering

**Relevant Coursework:** Linear Algebra, Calculus, Probability and Statistics, Computer Programming, Digital Signal Analysis and Processing, Data Mining, Artificial Intelligence, Database Systems, Big Data Technology

## WORK EXPERIENCE

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### University of Nebraska Omaha

August 2022 - Present

*Research Assistant*

*Omaha, Nebraska, USA*

- Research Assistant on Deep learning based image watermarking

### Terakoya Academia

March 2022 - July 2022

*Software Engineer(ML)*

*Kathmandu, Nepal*

- Worked on OCR project for document parsing

### Ncell Nepal

December 2021 - March 2022

*ML Engineer and Data Science Consultant*

*Kathmandu, Nepal*

- Employed as a ML Engineer and Data Scientist Consultant at Ncell, a telecommunications firm, where I assists in building Center of Excellence for AI services to generate insights from their data and building automated system.
- Worked on analysis of fraudulent SIM activation and automation

### Fusemachines Nepal

January 2020 - March 2022

*ML Engineer*

*Kathmandu, Nepal*

- Lead handwritten based document extraction project, implemented models based object detection(FCN) and CRNN model for recognition. Also enhanced DevOps skills(docker, shell scripting).
- Improved and enhanced sub-module(resource recommendation and question difficulty prediction) of AI integrated educational platform where elastic search based resource recommendation was implemented and for question difficulty prediction various classic machine learning models(Linear Regression, Tree based models) and deep learning based models(Attention and BERT model) were tested. Regularly analysed and monitor the data and model in the system.
- Worked on Email Automation system where for email classification SVM and Xgboost model were implemented and RTE models were implemented for macros suggestion.

### Johnson Care, UK

July 2018 - October 2019

*Junior Software Developer*

*Nepal*

- Involved in developing various in house system to record and analyse records.

### Omdena

August 2019 - September 2019

*Data Wrangler*

Created new features from raw satellite images for Sophisticated Tree Identification Model and also created GAN model to generate new images.

## PROJECTS

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### Word2Vec(Skipgram) Implementation

[Code](#)

- Implemented and trained word2vec on small corpus.

### Text to image synthesis(Major Project)

[Code](#)

- Created GAN model to generate plausible images from a given description.

### Species classification

[Code](#)

- Implemented species classification model using transfer learning, classified sea shells and monkeys images into different species.

### Transfer Learning for image classification

[Code](#)

- Analysed different state of art models for transfer learning along with handling real world data efficiently and quantization of model to efficiently deploy.

### Car Price Prediction

[Code](#)

- Developed linear regression based model to predict car price and explored feature extraction and optimization .

**Other Project:** E-commerce site.

## TECHNICAL STRENGTHS

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<b>Machine Learning</b>	Numpy, Pandas, Pytorch, Keras, TensorFlow, scikit-learn
<b>Data Visualisation</b>	Seaborn, matplotlib
<b>Web Frameworks</b>	Django, Flask, FastApi
<b>MLOps and Cloud Services</b>	Docker, Kubernetes, etc.
<b>Programming</b>	Python
<b>Databases</b>	MySQL, PostgreSQL, MongoDB, Hive, Impala
<b>Web scraping</b>	Beautiful Soup

## CERTIFICATIONS

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- Microdegree in Deep Learning, Fusemachines [View Certificate](#)
- Deep Learning Specialization, Coursera, [View Certificate](#)
- Introduction to Tensorflow for Artificial Intelligence, Machine Learning and Deep Learning, Coursera, [View Certificate](#)
- Convolutional Neural Networks in Tensorflow, Coursera, [View Certificate](#)
- Sequences, Time Series and Prediction, Coursera, [View Certificate](#)
- Natural Language Processing in Tensorflow, Coursera, [View Certificate](#)

## REFERENCES

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Available on Request