PRASHISH PAUDEL prashishpaudel@gmail.com | (567) 801-6165 | https://www.linkedin.com/in/prashishpaudel/

EDUCATION

MS in Computer Science | University of Toledo, Toledo, OH   **2021 – May 2023(Expected)**
BE in Computer Engineering | Tribhuvan University, Kathmandu, Nepal   **2013 – 2017**

WORK HISTORY

Research Assistant – University of Toledo, Toledo, OH   **Jan 2022– Current**
Health Care Analytics: Research Collaboration with University of Toledo medical center for analyzing heart surgery data of a patient.
- Analyzed vital characteristics of the patient such as O_2 level, Heart Rate Variation, Blood Pressure, Fat mass, Bone mass, and so on.
- Using ML model to predict whether the patient needs intervention from a doctor based on the patient's latest data.

Teaching Assistant – University of Toledo, Toledo, OH   **August 2021– Current**
- Conducted Lab sessions and actively tutored students for EECS 1100: Digital Logic Design.
- TA for EECS 2520: Discrete Structures.
- Maintained an atmosphere of academic learning and advancement to facilitate learning and development of critical thinking skills.

Full Stack Developer – G. and D. Developers Pvt Ltd., Kathmandu, Nepal   **May 2020 – July 2021**
Tools: Django, React, PHP, JavaScript, MySQL, HTML5/CSS, AJAX
- Developed a backend engine for GD Shop Nepal
- Developed a portal for freelancing content writing job seekers and employers.

Software Engineer – FOCUSONE Nepal Pvt.Ltd, Kathmandu, Nepal   **July 2018 – May 2020**
Tools: PHP, JavaScript, MySQL, HTML5/CSS, Dialogflow API
- Developed Vehicle Tax Calculator "VTAX" for Department of Transport Management (DOTM), Nepal.
- Developed Interactive Chatbot using Dialogflow API.
- Developed dynamic website using processwire CMS & PHP.
- Developed database functions, scripts, stored procedures and triggers to support application development.

SKILLS

Languages: Python, C++, C, Java
Web Development: PHP, JavaScript, MYSQL, HTML/CSS, jQuery,AJAX, React
Machine/Deep Learning: TensorFlow, Keras, Computer Vision, NLP, CNN, LSTM, GAN, Transformer
Others: Android App Development, Git, Linux, Docker, OpenCV

PROJECTS

Maritime Vessel Prediction | Python, NumPy, Scikit-Learn, Pandas, Seaborn, Matplotlib, K-Means Clustering
Maritime Vessel Prediction from Automatic Identification System(AIS) Data.
- Developed a model to identify the trajectory Maritime Vessel from AIS data using the Unsupervised clustering technique.
- Used latitude, longitude, speed, and angle of a vessel to derive a model that was able to predict the trajectory with great accuracy.

Sentiment Analyzer | Python, Tensorflow ,Keras, LSTM, Flask,Word2Vec, NLP   See Project
Sentiment analysis of newspapers articles.
- Developed the News Sentiment Analyzer using Stacked Bidirectional Long short-term memory(BiLSTM) model.
- Developed a Flask app to display the live sentiment of News Published in English Newspapers of Nepal.

ColorGAN | Python,Tensorflow, Keras, CNN, GAN,U-Net   See Project.
Deep neural network model for colorizing grayscale images.
- Colorizing Grayscale Photos using Conditional Generative Adversarial Networks(cGAN) model.

NeuroPlay | Python, NumPy, Neural Networks, Genetic Algorithms   See project
Evolving birds (represented by neural networks) to play the game on its own.
- Evolving a population of neural networks to play a game alike flappy bird on its own.
- Modelled the neural networks, trained them using genetic algorithm only using NumPy.