

Niraj Khatiwada

Python Developer

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EDUCATION

Bachelors in Electronics and Communication Kathmandu University

CGPA
- 3.44

PROFESSIONAL SUMMARY

- > Good understanding of MVC design pattern and MTV based Python web framework, Django
- > Strong understanding of Object Oriented Programming with Python and ability to convert traditional code into portable object oriented code
- > Fluent with Regular Expression (regex) in Python for utilizing in search algorithm
- > Sound knowledge of Django Rest Framework for building robust API's
- > Strong knowledge of Relational Database Management System, PostgreSQL
- > Sound understanding of various querysets and requests required to interact with database in Django ORM
- > Fluent in Numpy, Matplotlib, Scipy and Pandas python libraries during development lifecycle.
- > Knowledge in traditional mathematical and statistical machine learning approach, Regression, KNN, Naive Bayes, SVM, Decision Tree and LSTM to name a few.
- > Knowledge in modern machine learning approach, Artificial Neural Network and Deep Learning along with Computer Vision tools such as OpenCV, Tensorflow, Keras as well as YOLO v3.
- > Ability to make responsive websites using HTML, CSS3, Javascript and well understanding of Bootstrap for quick development
- > Familiar in implementing the virtual development environments using platform like Vagrant, proficient in Docker for work productivity
- > Good understanding of python automation along with Selenium and data abstraction using Scrapy
- > Good knowledge in maintaining version control system, Git
- > Ability to prioritize work and multi-task to meet the strict deadline

SKILLS

Python(Django)

REST API

PostgreSQL

Selenium

Scrapy

Tensorflow, Keras

pandas, matplotlib, numpy, scipy

OpenCV

Vagrant

Docker

HTML, CSS3, Bootstrap4

Javascript

Git

ngrok

Linux(Debian)

PROJECTS

Stock Market Prediction using LSTM in Python

Final year Neural Networking course's project that predicts the stock market for the next day using machine learning in Python, trained using Google's stock datasheet.

Vehicles License Plate Recognition(LPR) system using OpenCV

A automatic License Plate Recognition system that detects and displays license number using OpenCV.

Dog and Cat Classifier using Keras

A simple mini-project that classifies Dog and Cat using Data Augmentation in Keras.

Learning Management System using Django

A learning system (like Moodle but specially focused in context of Nepal) that consists of 3 authorities - Manager, Teacher and Student managed by PostgreSQL database. The python project utilizes multi-authentication system for login and signup, email backend, push notifications for notices, announcements and assignments deadline.

Web Scraping with Python

Used Python's web scraping framework Scrapy to extract news from Kathmandu Post and display all the news without ads and annotations. The scraped site was built using Django.

QUALIFICATIONS

Machine Learning Engineer, Internship- TreeLeaf.ai (09/2019 – 12/2019)

Object Classification using YOLO - Main task was to detect and classify people and their carrying goods in real time using CCTV footage and count them using You Only Look Once (YOLO v3). Project was rendered through Django.

Web Developer (Django), Internship- IIT Nepal (01/2020 – Present)

Currently, I have been performing Internship and teaching in Python specialized in web development in Django in IIT Nepal, Bagbazaar. I help students become familiar with core concepts of Python to apply in Django as well as in basic Machine Learning approaches.