Rajan Pandey

Python Developer, Data Science

Computer engineering student with self motivation and responsibility, pursuing a career as a python developer and data science. Self-learned tool and framework such as Django, machine learning and deep-learning and have good skills and experience in tools and methods. I am able to work well both in a team environment as well as using my own initiative.

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EDUCATION

Bachelor of Computer Engineering
National College of Engineering, Tribhuvan University

10/2016 - 01/2022   *Lalitpur, Nepal*

Project
- Animal Recognition System. (minor project)
- Facial Landmark Detection. (major project)

PERSONAL PROJECTS

1. Animal Recognition System Based On CNN. (05/2019 - 08/2019) ⬈
- **Identifying** the **animal** in the **images** with the help of **convolutional neural network** in K**eras** and using **Kaggle Animal-10** dataset. And obtains **78% accuracy** while validation.

2. Facial Landmark Detection using CNN from scratch using numpy. (11/2019 - 02/2021)
- Creating a **CNN model** to **detect facial landmarks** in an **image** and obtaining **0.05 means absolute error**. And **apply filters** according to **landmarks points.**

4. Build full functioning eCommerce site called GreatKart using django3 (09/2021 - No Expires) ⬈
- Working with **Model, Media Files, Paginator & Search,** add to **Cart using Session Keys**, **Increment/decrement/remove Cart Items, Fixing Cart Bugs & Context Processor for Cart Item Counter**
- **Product Variations & Variation Manager, Registration, login, User Account Activation & Activation Link Expiry and Forgot Password with Secure Validation Links**
- **Cart Checkout, automatically assign the Cart Items to Logged-in User, Payment Gateway Integration & Place Order**

5. coffee-website and SocialBook using html and pure css (09/2021 - 09/2021)
- Learn and build websites using **html and pure CSS (flex-box and grid)**

6. Stock price of Google using LSTM (12/2019 - 01/2020) ⬈
- By using **LSTM** technique, **predict** the **Google stock price** which is time series data and obtains **0.0219 mean absolute error.**

8. Text Recognition using CRNN (05/2019 - 06/2019) ⬈
- Creating a **CRNN model** to **recognize English text** in an **image** using **CTC decoder and encoder** with **validation accuracy of 0.7431.**

9. Web Scrapping on Cribcuzz and flipkart (12/2020 - 12/2020) ⬈
- To **automatically extracting information** from **web** with **images**.

10. Text Extraction from Image (05/2019 - 05/2019) ⬈
- **Extract text** from **images** which is used while r**ecognizing alphabets** using **opencv.**

11. California Housing Price Prediction (02/2020 - 03/2020) ⬈
- To **Predict a housing prices** using the **California house datasets** with help of **Linear, Lasso and Ridge Regression** and also perform **exploratory data analysis and outlier treatment.**

SKILLS

Python · MS-Excel · Django · Pandas · Numpy · SciKit-learn · SQL, MongoDB and Neo4j · LInux · Opencv · Keras · Plotly and Dash · Seaborn · Machine Learning · Deep-learning · Javascript · IBM whatson Studio · Heroku Server · Html, CSS · Google Data Studio

PUBLISH

Journal on "Animal Recognition System Based On CNN". (08/2020 - No Expires) ⬈
On NCE Journal of Science & Engineering (NJSE) Vol I, Issue I.

CERTIFICATES

1. Microsoft Excel (12/2019 - No Expires)
Offered by Udemy

2. An Introduction to Interactive Programming in Python (Part 1 and 2) (11/2018 - No Expires)
Offered By Rice University on Coursera

3. Neural Networks and Convolutional Neural Networks. (10/2019 - No Expires) ⬈
Offered By DeepLearning.AI on Coursera.

4. IBM Data Science Specialization (07/2021 - No Expires) ⬈
Offered by IBM on Coursera

5. Introduction to Data Studio (08/2021 - 08/2024) ⬈
Offered by google Analytics academy

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WORK EXPERIENCE

Data Science Intern
Blackcoffer Consulting

07/2021 - 08/2021   *New Delhi, India*

Task

- **Writing Script and Draft document for text extraction and to fetch data using API on Python.**
- **Storing and handling fetched data in google big query, create a dashboard from that data on google data studio.**
- **Deploying and draft document for scripts and checking daily logs of deployed tools in Heroku server.**

Django Developer, AI
Mango Software Solutions Pvt. Ltd.

11/2021 - Present   *Putalisadak, Kathmandu*

Task

- **Design and build a Chat-bot from Scratch using Universal Sentence Encoder model and integrated in Django server using restful API and Django channel.**
- **Integrated our Chat-bot System in Messenger and Viber using their Web-hook.**
- **Developed Real Time Chat System using Django channel and web-socket.**
- **Developed Real Time Video-Calling System using Django channel (Signaling server) and Web real-time communication API for a single Peer-Peer and try another Conference video calling Architecture such as Multi-point Control Unit (MCU) and Selective Forwarding Unit (SFU) in Django.**

WORK SKILLS

Natural Language Processing   Web RTC

Django-restful API   Bert and USE model

Django Channel and Web-Socket

Web-hook Integration

INTERESTS

Traveling   Watching Movies

Photography   Using new devices

Learning AI and Data Science   Sleeping