

Manish Bhurtel

1995 August 28

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Marital Status: Single

RESEARCH INTERESTS

Machine Learning, Deep Learning, Computer Vision, Natural Language Processing

EDUCATION

Bachelor in Computer Engineering **January 2019**
Tribhuvan University, Institute of Engineering
Eastern Region Campus 73.20 %

Higher Secondary Education (Intermediate) **2014**
Higher Secondary Education Board 83.10 %
Emerald Academy Higher Secondary School

School Leaving Certificate (SLC) **2012**
Government of Nepal 84%
Emerald Academy Higher Secondary School

PROFESSIONAL AND RESEARCH EXPERIENCE

AI/ML Research Intern **Aug 2019 – Present**
Infokonn Technologies Pvt. Ltd., Hattisar, Kathmandu, Nepal

- Research on Machine Learning and Deep Learning
- Experiments by modifying the standard neural network architecture
- Working on standard machine learning pipeline
- Working with SQL Server

Internship **Dec 2017 – Feb 2018**
Vigor Incorporation, Itahari, Sunsari, Nepal

- Web development with Laravel
- Project and Inventory Management

PUBLICATION

Manish Bhurtel, J. S. (2019). Deep Learning based Seed Quality Tester. *Science, Engineering and Technology (SET) Conference*. Kathmandu.(to appear)

PRESENTATION

“Deep Learning based Seed Quality Tester”, AI Expo, Kathmandu, Nepal, August 2019

RESEARCH PROJECTS

Face Validation

Automatically detecting and accepting only valid photos in a CV. The valid photo refers to the image containing single person's face without eye or face covers.

Tools and Technologies: Python Programming Language, Dlib Library, Convolutional Neural Network

Duration: 2 weeks

Abusive Content Detection in Text

Automatically detecting and rejecting the textual posts which contain adult or abusive English content.

Tools and Technologies: Python Programming Language, Natural Language Processing, Naïve Bayes Classifier

Duration: 3 weeks

Hairstyle Recommendation System using Deep Learning and Computer Vision [Running]

Validating a face of a person, detecting the face shape and using the face shape to recommend the best hairstyle to the person by fitting the appropriate hair-template.

Tools and Technologies: Python Programming Language, Convolutional Neural Network (CNN), OpenCV, Keras, Django Framework.

Duration: August 2019 – Present

Deep Learning based Seed Quality Tester

Used Convolutional Neural Network (CNN) to predict the quality of the seed as Excellent, Good, Average, Bad and Worst

Dataset: Self-created highly precise and fine dataset by clicking 3000 high quality images of the maize seed cluster

Link to Dataset: <https://www.kaggle.com/zom8ie99/maize-seed>

Training Phase: Adadelta Optimizer, modified Alexnet Architecture, 100 epochs, 81% training accuracy, 80% test accuracy

Server Side: Django Framework

Duration: September 2018 - November 2018

Link to Github: <https://github.com/9characters/seedqt>

Image Steganography

Embedding and encoding the text message within an image which can be decoded by the respective key.

Tools and Technologies: Laravel, LSB Insertion Algorithm

Duration: 2 months

TECHNICAL SKILLS

Programming Language: C, C++, Java, Python

Framework: Laravel, Django

Front End: HTML, CSS

Artificial Intelligence: ML, Deep Learning, CNN, NLP, Computer Vision

Libraries: Tensorflow, Keras, Pandas, Matplotlib, Numpy, Dlib, OpenCV

Highly skilled in Standard Machine Learning Pipeline

Good concept of MVC and MVT architecture

Basic knowledge of Android App Development with Android Studio

Working and Coding with Raspberry Pi, Sense Hat

Sound knowledge of Version Control System with Git and GitHub

Good Report Writing Skills

Potential for Independent Research

INTERPERSONAL SKILLS

Effective Communication

Public Speaking

Capability to work under pressure

Self-motivated, positive attitude towards work and resourceful team player

Enthusiastic and willingness to learn

TRAINING AND WORKSHOPS

Intensive IoT Bootcamp

Aug 2019

Working with different IoT devices and conducted projects with those devices

Tools and Technologies: Raspberry Pi, PIR Sensors, Sense Hat, Ultrasonic Sensor, Pi Camera, Python, Flask

Java Training and One day Android Workshop

Jul 2018

Object oriented programming and projects in Java

Three days' Workshop Machine Learning

2018

Machine Learning training including ANN, CNN, Regression, NLP, Clustering

AWARDS AND SCHOLARSHIPS

Golden Jubilee Scholarship

Feb 2015

Merit-based scholarship awarded for 4-years of Bachelor's degree

Issued By: Government of India

Full Tuition Wavier

Dec 2014

Awarded to outstanding students in the Entrance Exam for 4-years Bachelor's degree

Issued By: Tribhuvan University, IOE Purwanchal Campus, Dharan, Sunsari, Nepal

Mahatma Gandhi Scholarship**2012**

Merit-based scholarship awarded for 2-years Intermediate in Nepal

Issued By: Government of India

Full Tuition Wavier**2012**

Awarded to the top student in the Entrance Exam with distinction grade during SLC Examination, for 2 years Intermediate

Issued By: Emerald Academy Higher Secondary School, Bhadrapur, Jhapa, Nepal

LANGUAGES:

Nepali, English, Conversational Hindi

DRIVING LICENSE

Two – wheeler

INTERESTS

Music, Singing, Guitar, Cooking, Volleyball

REFERENCES**Er. Bimal Ghimire**

Assistant Professor, Department of Electronics and Computer Engineering, Institute of Engineering, Eastern Region Campus, Dharan, Sunsari, Nepal

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Er. Manoj Kumar Guragain

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