Adarsh Ghimire

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OBJECTIVE

Energetic, Hardworking and Passionate graduate of Electronics and Communication Engineering (aggregate of 87.551% out of 100% highest in the University) from Kathmandu Engineering College, Tribhuvan University. Enthusiast in Networking and Cyber Security, Machine Learning and Artificial Intelligence. Aiming to use my knowledge of Electronics and Communication Engineering for making difference in modern digital world.

PROFILE

- Paper presented "Smart Gloves", at Office of KEC Research and Publication (OKRP) on December 22, 2018.
- Completed internship on Web development at Leapfrog Technology, Inc.
- Completed Internship on Backbone Network Operation Center at Nepal Telecom.
- Well developed project management and IT skills combined with flexible attitude to work.
- Strong organizational skills in a variety of situations to achieve deadlines.
- Have initiative and can work independently or as a part of team.
- Adaptable and quick to learn new skills.

WORK EXPERIENCE

Leapfrog Technology, Inc. — 10 September, 2018 — 9 October, 2018

Software Engineering Intern

- Training on Git,
- Training on HTML, CSS, and Javascript,
- Web development tasks,

Nepal Telecom — 16 January 2018 — 1 February 2018

Internship on Backbone Network Operation Center

- General setup and operation of OTNM2000 for fiber home employed by Nepal Telecom,
- Study on Optical Fiber Communication System and Microwave Communication system used by Nepal Telecom,
- Study on Cloud computing its future prospects at Nepal Telecom,
- Study on working of router, switches and Base Transceiver Station used by Nepal Telecom,

PUBLICATIONS

1. "Smart Gloves", at Office of KEC Research and Publication (OKRP) on December 22, 2018.

EDUCATION

Bachelor in Electronics And Communication Engineering — 2014 — 2018

Kathmandu Engineering College, Tribhuvan University, Kathmandu, Nepal

UNIVERISTY TOPPER

First year

- **I semester :** 85.24% *(Batch Topper/ Scholarship Holder)*
- **II semester :** 89.54% *(University Topper/Scholarship Holder)*

Second Year

- **III semester :** 91.2% *(University Topper/Scholarship Holder)*
- **IV semester :** 87.41% *(Batch Topper/Scholarship Holder)*

Third Year

- **V semester :** 83.5% *(Top 5/ Scholarship holder)*
- **VI semester :** 88.9% *(University Topper/Scholarship Holder)*

Fourth Year

- **VII semester :** 88.75% *(University Topper/Scholarship Holder)*
- **VIII semester :** 86.93%

Higher Secondary Education — 2012 — 2014

United Academy Higher Secondary School of Science, Management and Humanities, Lalitpur, Nepal.

- Completed Higher Secondary Education in "Physical Science" with Distinction in both years.

Secondary Education — 1999 — 2012

Jyoti English Boarding High School, Dhangadhi, Kailali, Nepal.

- Completed the Secondary Education with 90.5% in year 2012 (Far-Western Development Region Topper).
- Completed the Lower Secondary Education with 89% in year 2010 (Region topper).

PROJECTS

Major Project:

Smart Gloves

Everyday communication with the hearing population poses a major challenge to those with hearing loss. For this purpose, an automatic sign language recognition system has been developed using Random Forest Classifier as a machine learning algorithm, and to translate the sign alphabets and common words into text and sound. A glove circuit has been designed with flex sensors, 3-axis accelerometer and gyroscope to capture the gestures or signs data. The finger bend data has been obtained from flex sensors on each finger while the accelerometer and gyroscope provided the trajectories of the hand motion. The data from the sensors has been passed through the trained model to recognize the gesture. The main purpose of Smart Glove is to provide an ease of sharing basic ideas, minimize communication gap and an easier collaboration for the hard of hearing people.

Minor Project:

Wireless Mobile Charging with Coin Insertion

The growth of the mobile phone is phenomenal in recent years and the need for charging the mobile battery is required anytime and anywhere. Most of people are familiar with the wired charger used for charging phones but with growing technology in the field of wireless communication, what's missing from most of the people is visions of a futuristic

utopia are wires. We never see anyone fumbling with a wire to plug in a device. We're not there yet, but wireless charging technology is improving all the time. With this project an attempt has been made to take a small step towards making a wireless charger on coin insertion.

"Idea Hunt" IT Meet 2018, Kathmandu University Computer Club
Livestock Supervision System

Cattle industry plays an important role in Nepal's economy, also, modern intensive farms makes the farmer totally responsible for control of livestock. So the system we are making measures the temperature, heart rate and tracks the location of the livestock and send the corresponding data to the web page. The webpage we are making comprises of access to veterinary and livestock owner so that they can know about the cattle condition and track the location of it. Whenever the vet wants to send any recommendation(like medicines) to the owner for taking care of the livestock he can send the recommendation on web or through the use of GSM technology which we provide to vet. And the whenever the location of livestock is needed by the owner, he can send the alert through his cell phone or the web then the corresponding location of cattle is send directly sent to owner cell phone through the GPS and GSM technology which we will be embedded in that system.

CERTIFICATES

INTRODUCTION TO CYBER SECURITY COURSE
Completion of Introduction to Cybersecurity course and demonstrating the ability to explain global implications of cyber threats, ways in which networks are vulnerable to attack, impact of cyber-attacks on industries, Cisco's approach to threat detection and defense, why cyber security is a growing profession from Cisco Networking Academy on January 06, 2019.

DATA ANALYSIS WITH SPREADSHEETS COURSE
Statement of accomplishment on successful completion of the Data Analysis with Spreadsheets course by DataCamp, certificate number : #7,981,152.

INTRODUCTION TO GIT FOR DATA SCIENCE COURSE
Statement of accomplishment on successful completion of the Introduction to GIT for Data Science course by DataCamp, certificate number : #7,963,663.

INTRO TO SQL FOR DATA SCIENCE COURSE
Statement of accomplishment on successful completion of the Intro to SQL for Data Science course by DataCamp, certificate number : #7,978,748.

INTRODUCTION TO SAN AND NAS STORAGE
Successful completion of Introduction to SAN and NAS storage on December 21, 2018. FLACKBOX, Serial No.cert_jt90yczg.

A PRACTICAL INTRODUCTION TO CLOUD COMPUTING
Successful completion of A Practical Introduction to Cloud Computing on December 21, 2018. FLACKBOX, Serial No.cert_g17h0x9h.

INTRODUCTION TO SHELL FOR DATA SCIENCE COURSE
Statement of accomplishment on successful completion of the Introduction to Shell for Data Science course by DataCamp, certificate number: #7,951,528.

BUILD NETAPP ONTAP LAB
Successful completion of How to build NetApp ONTAP lab for free on December 03,

2018. FLACKBOX, Serial No.cert_tfl14j3v.

CISCO CCNA LAB OPTIONS
Successful completion of Cisco CCNA lab options on December 02, 2018. FLACKBOX, Serial No.cert_z3fflklx.

PACKET TRACER COURSE
Completion of Introduction to packet tracer course from Cisco Networking Academy on December 02, 2018.

GNS3 AND PACKET TRACER
Successful completion of GNS3 and packet tracer installation on December 01, 2018. FLACKBOX, Serial No.cert_b3b06Iyy.

INTRODUCTION TO PYTHON COURSE
Statement of accomplishment on successful completion of the Introduction to Python Course by DataCamp, certificate number: #4,722,700.

JENESYS 2016
Certified by Japan International Cooperation Center for completion of "JENESYS 2016 SAARC 1st batch" from Jan 16 to Jan 24, 2017.

ACHIEVEMENTS

First National Space Meet Nepal Participation
Attended the First National Space Meet of Nepal organized by Space Generation Advisory Council, in support of the United Nations Program on Space Applications on 21st July, 2018 at Nepal Academy of Science and Technology, Kathmandu.

College Topper
Appreciated for achieving 88.75% in final exam of Bachelor of Electronics and Communication Engineering Fourth year First Semester held by Institute of Engineering, Tribhuvan University on March 2018.

Certificate of Appreciation
Winner of "Idea Hunt" IT MEET 2018 organized by Kathmandu University Computer Club (KUCC) on January 5th and 6th, 2018.

Best Presentation
Honored with Best Presentation (NEPAL) among all SAARC countries in JENESYS 2016 program by Pakistan Ambassador.

College Topper
Appreciated for achieving 88.97% in final exam of Bachelor of Electronics and Communication Engineering Third year Second Semester held by Institute of Engineering, Tribhuvan University on September 2017.

Certificate of Appreciation
Appreciated for volunteering in Office of Kathmandu Engineering College Research and Publications (OKRP) conference 2017.

Second Runner up
International Robotics Competition (YANTRA) in "Manual Akhada", organized by Robotics Association of Nepal held on 30th of November, 2016.

College Topper

Appreciated for achieving 87.41% in final exam of Bachelor of Electronics and Communication Engineering Second Year Second Semester held by Institute of Engineering, Tribhuvan University on August 2016.

Second Runner up
"ROBODRIFT 4.0" organized by Robotics Club of Kathmandu Engineering College on 30th July, 2016.

College Topper
Appreciated for achieving 91.2% in final exam of Bachelor of Electronics and Communication Engineering Second year First Semester held by Institute of Engineering, Tribhuvan University on March 2016.

College Topper
Appreciated for achieving 89.53% in final exam of Bachelor of Electronics and Communication Engineering First year Second Semester held by Institute of Engineering, Tribhuvan University on September 2015.

Outstanding Participation
Appreciated for outstanding participation in "International yoga day" on 21st June, 2015 at Kathmandu Engineering College.

College Topper
Appreciated for achieving 85.24% in final exam of Bachelor of Electronics and Communication Engineering First year First Semester held by Institute of Engineering, Tribhuvan University on March 2015.

SKILLS

- CCNA
- Packet Analysis
- Python
- MATLAB
- HTML
- CSS
- Javascript
- SQL
- Drone
- Arduino
- C++
- C

INVOLVEMENT

1. Electronics Project Club of Kathmandu Engineering College
a). Made Drone for YANTRA RACER, YANTRA 6.0, Robotics Association of Nepal.
2. AI Developers Nepal
a). Part of AI workshop
3. FPGA training at Kathmandu Engineering College

INTERESTS

Educational

- *Research on Networking, Communication, Nanotechnology and Internet of Things(IoT),*
- *Programming*

Games

Cricket
Trained at Kathmandu Cricket Training Center.
Selected for District Level Cricket competition for Kailali, Nepal.

Played for school in Inter-school Competition (U-15) and (U-19) and awarded "Man of the match" and "Man of the series".

Volley Ball
Played for National Level Volleyball Competition from School and winner of Intra-school VolleyBall Competition.

Table Tennis
Winner of Intra-school Table Tennis Competition Single and Doubles.

Football
Played for school in Inter-school Football Competition

REFERENCES

Er. Sagun Manandhar
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