

Sushant BHATTARAI

Research Assistant / PhD Student in Computer Science

@ sbhatt23@kent.edu sushantbhattarai.github.io/
github.com/sushantbhattarai linkedin.com/in/sushant-bhattarai
Kent, OH, 44240 USA

PUBLICATIONS

Bhattarai, S., Bhurtel, Y., KC, B., Subedi, S. (2022). "English Sign Gesture Recognition using CNN". *Proceedings of the 12th IOE Graduate Conference* (pp. 1825-1831). Kathmandu : Institute of Engineering, Thapathali Campus.
<http://conference.ioe.edu.np/publications/ioegc12/IOEGC-12-242-12354.pdf>

EDUCATION

August 2024	PhD in Computer Science Kent State University , OHIO, USA
Present	<ul style="list-style-type: none">➤ Major Courseworks : Design & Analysis of Algorithms, Foundation of Deep Learning and AI, Computational Geometry, Data Mining Techniques➤ Current GPA (4.0) <div>KSU, OH, USA</div>
November 2017	Bachelor's in Computer Engineering Himalaya College of Engineering (Tribhuvan University) , KATHMANDU, Nepal
April 2022	<ul style="list-style-type: none">➤ Major Courseworks : Data Structures and Algorithms, Object Oriented Programming, Discrete Mathematics, Probability and Statistics, Theory of Computation, Computer Organization & Architecture, Artificial Intelligence, Computer Networks, Computer Graphics, Database Management System, Operating Systems, Software Engineering➤ GPA : 80.81% <div>BE, TU, Nepal</div>

RESEARCH EXPERIENCE / PROJECTS COMPLETED

May 2021	English Sign Gesture Recognition using CNN, UNDERGRADUATE THESIS, Status = Complete
April 2022	<ul style="list-style-type: none">➤ Used Python libraries OpenCV and Tensorflow, designed the Convolutional Neural Network model architecture and trained the model to recognize English Sign language hand gesture alphabets from A to Z.➤ Published the paper and presented a poster in Institute of Engineering Graduate Conference, Nepal (October 2022)➤ Supervisor : Sudarshan Subedi <div>Link : https://github.com/sushant-bhattarai/sign-language-recognition-major-project</div>
September 2020	Colleges Recommendation System using Collaborative Filtering, UNDERGRADUATE PROJECT, Status = Complete
March 2021	<ul style="list-style-type: none">➤ Built a website using Laravel framework that recommends high schools to users according to their interests and consequently users can apply to them.➤ Supervisor : Himat Chand Thapa <div>Link : https://github.com/sushant-bhattarai/commoncollegeapplication</div>

WORK EXPERIENCE

August 2024 Present	Graduate Research Assistant, COMPUTER SCIENCE, KENT STATE UNIVERSITY, Ohio, USA <ul style="list-style-type: none">➤ Currently working on designing algorithms on prediction of resource requests in distributed directories➤ Performing literature reviews of papers related to distributed algorithms➤ Supervisor : Dr. Gokarna Sharma
------------------------	--

May 2022 July 2024	Assistant Lecturer, HIMALAYA COLLEGE OF ENGINEERING, TRIBHUVAN UNIVERSITY, Kathmandu, Nepal <ul style="list-style-type: none">➤ Teaching the group of 100 undergraduate students in Computer, Electronics, Communication and Information engineering, 3 courses : 'EX603 - Computer Graphics', 'SH553 - Numerical methods' and 'CSC109 - Introduction to IT'.➤ Conducting related lab tasks on various subjects and also assisting fellow lecturers during the laboratory period.➤ Supervisor : Ashok GM
-----------------------	---

November 2022 July 2024	Part-time Lecturer, SAGARMATHA ENGINEERING COLLEGE, TRIBHUVAN UNIVERSITY, Kathmandu, Nepal <ul style="list-style-type: none">➤ Teaching the course 'EX603 - Computer Graphics' to the group of 100 undergraduate students studying Electronics, Communication, and Information engineering.➤ Conducting related lab tasks of the specific teaching subject.➤ Supervisor : Bharat Bhatta
----------------------------	--

SKILLS

Programming Python libraries like OpenCV, keras, tensorFlow, NLTK, spaCy, pyTorch, numPy, and pandas
Advanced skills in C and C++
Intermediate skills in PHP and Laravel Framework

Machine Learning CNN, LSTM, RNN, GAN

Language English, Nepali

Hobbies Singing, Travelling, Soccer

AWARDS AND SCHOLARSHIPS

Graduate Research Assistantship - PhD in Computer Science Kent State University, Ohio, USA	August 2024 - Present
--	-----------------------

Full Scholarship - B.E. in Computer Engineering Institute of Engineering, Tribhuvan University	Nov 2017 - Apr 2022
--	---------------------

LEADERSHIP & VOLUNTEERING

Member - Himalaya Electronics and Computer Club (HECC) Himalaya College of Engineering, Kathmandu, Nepal	Apr 2021 - Apr 2022
--	---------------------