

CURRICULUM VITAE

Bal Krishna Nyaupane
Pokhara, Kaski, Gandaki, Nepal
bkn@wrc.edu.np
Mobile: +977- 9851132890

OBJECTIVE

As a highly self-motivated lecturer and researcher with 14+ years of experience in teaching a variety of graduate and undergraduate courses, my main goal is to serve students and contribute to a growing Computer Science and Engineering Department at a renowned University. I am deeply committed to providing creative, high-quality educational materials and to create the best educational environment possible. I have published 10+ journals. I can enhance my knowledge and research skills in the rapidly growing application fields of AI/ML/DL and contribute to developing novel solutions for real-world problems.

EDUCATION

Mälardalen University, Sweden

Master of Science in Computer Science with specialization in Software Engineering, 2014

Thesis: Testing a Timing Analysis tool: SWEET

Tribhuvan University, Institute of Engineering, Nepal

Bachelor's Degree in Computer Engineering, 2007

TEACHING EXPERIENCE

Institute of Engineering, Tribhuvan University

5/2018 –

Present

Assistant Professor

Courses taught:

- Machine Learning and Pattern Recognition,
- Advanced Data Mining,
- Artificial Intelligence,
- Data Mining,
- Database Management System,
- Computer Graphics,
- Object Oriented Programming (C++),
- Computer Programming – C,
- Data Structure and Algorithm, and
- Discrete Structure

Hillside College of Engineering, Purwanchal University

6/2014 – 5/2018

Academic Director, Senior Lecturer

Courses taught:

- Object Oriented Programming (C++)
- Computer Programming – C

Courses taught:

- Object Oriented Programming (C++),
- Computer Programming – C,
- Data Structure and Algorithm,
- Database Management System,
- Theory of Computation,
- Computer Graphics, and
- Artificial Intelligence

PROFESSIONAL SKILLS

Programming: C & C++, Java, Python, and PyTorch

Databases: SQL Server, and My SQL

NoSQL: MongoDB and Cassandra

Tools: Jupiter, Spyder, Net Beans, Turbo C++, and Dev C++

Machine Learning: Support vector machines (SVM), Ensemble Methods, K-NN, Naïve Bayes Method, Neural Networks, Transfer Learning, and Deep Learning

Machine Learning Libraries: Keras, TensorFlow, Matplotlib, Seaborn, Pandas, NumPy, Scikit-learn, and PyTorch

Specializations Courses: Deep Learning Specialization, Generative Adversarial Networks Specialization, Applied Data Science with Python Specialization, and Recommender Systems Specialization.

HONORS AND AWARDS

1. **Scholarship granted** from *ERASMUS MUNDUS IDEAS Action 2 programme* For Master Degree at Mälardalen University, Sweden.
 - This scholarship was granted based on the Bachelor's degree grade, teaching experience, and Professor's recommendation. This scholarship covered tuition fees, living costs, and medical insurance.
2. **Granted Four years Scholarship** for Bachelor's Degree in Computer Engineering at Advanced College of Engineering and Management, IOE, TU.
 - This scholarship was granted based on the merit of the Entrance Examination conducted by the IOE, TU. This scholarship covered full tuition fee for four years.
3. **College Batch Topper:** College Batch Topper in the class of 33 students in Advanced College of Engineering and Management, Tribhuvan University.

PUBLICATIONS

1. **Bal Krishna Nyaupane**, Subarna Shakya "Age, Gender, and Ethnicity Prediction using Deep Separable Convolutional Neural Networks" International Multidisciplinary Conference - Dubai, March-2022
2. **Bal Krishna Nyaupane**, Rupesh Kumar Sah, Bishnu Hari Paudel, Subarna Shakya "Grayscale Image Colorization using MSE, BCE and MAE Losses for U-Net and patchGAN" International Journal of Advanced Engineering (IJAE), Vol. 05, No. 01, March 2022, Pages 8-17, Publisher ICT-Advanced Engineering Society

3. **Bal Krishna Nyaupane**, Rupesh Kumar Sah, Bishnu Hari Paudel "Alphanumeric CAPTCHA Recognition Using CNN-BiLSTM Network" 8th International Conference on Advanced Engineering and ICT-Convergence 2022 (ICAEIC-2022), January 18-21, 2022
4. **Bal Krishna Nyaupane**, Rupesh Kumar Sah, Kiran Chandra Dahal "SVM, KNN, random forest, and neural network-based handwritten Nepali barnamala recognition" Journal of Innovations in Engineering Education, Vol. 4, No. 2, December 2021
5. **Bal Krishna Nyaupane**, "Pneumonia of Chest X-Ray Images detection using VGG Architectures" LEC Web-Based First International Conference on Engineering and Technology, 4th December 2021
6. Jupiter Tamrakar, **Bal Krishna Nyaupane** "Synthesizing Human Face Image from Textual Description of Facial Attributes Using Attentional GAN", 10th IOE Graduate Conference, September 2021
7. Bishon Lamichhane, **Bal Krishna Nyaupane**, Smita Adhikari "English Speech Recognition Using Convolution Neural Network, Gated Recurrent Unit, and Connectionist Temporal Classification" 10th IOE Graduate Conference, September 2021
8. **Bal Krishna Nyaupane**, Rupesh Kumar Sah "Fine-tuning of ResNet pre-trained models for Diabetic Retinopathy Stages Classification" International Journal of Advanced Engineering, Vol. 04, No. 02, September 2021
9. Sangharsha Bidari, **Bal Krishna Nyaupane** "An Approach for Damaged Facial Image Restoration using GAN" 9th IOE Graduate Conference, March 2021

PARTICIPATION ON WORKSHOP AND CONFERENCE

1. 4th National Workshop on Machine Learning and Data Science, 15th -19th September, 2021 as a Project Mentor
2. 3rd National Workshop on Machine Learning and Data Science, 30th July- 3rd August, 2020 as a Project Mentor
3. Participated at Three days "**Workshop on Data Management and Analysis (SPSS Focused)**" held from 3-5 July, 2017 organized by Kathford International College of
4. Engineering and Management.
5. Paper presented at "**SET Conference 2016**" held on November 16, 2016 organized by Department of Electronics and Computer Engineering, Advanced College of Engineering and Management.
6. Participated at "**The 12th International Conference on Computing and Information Technology**" organized by King Mongkut's University of Technology North Bangkok
7. Participated on Two days "**Training on Effective Teaching Methodology**" held on 13-14 May, 2016 organized by Hillside College of Engineering.
8. Participated at Three days "**ICT Expo and Conference 2009**" held from 12-14 June,
9. 2009 organized by School of IT and Engineering, Whitehouse College of Science and Engineering.
10. Attended on One Day "**Workshop on Robotics & Automation 2006**" organized by Robotics Club, Institute of Engineering
11. Participated on "**Robo Shooter 2005**" Second National Robot Competition organized by Institute of Engineering
12. Attended on One Day "**Workshop on Robotics & Automation 2005**" organized by Robotics Club, Institute of Engineering.