

Pradeep Bajracharya

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Education	PhD in Computing and Information Sciences Rochester Institute of Technology, Rochester, NY, USA Advisor: Dr. Linwei Wang Research Group: CBL Lab Relevant Courses: Deep Learning, Statistical Machine Learning, Image Processing and Computer Vision, Probability and Noise System Modeling 2018 - Present (3.92/4.00) GPA
	Bachelor in Electronics and Communication Engineering, Pulchowk Campus, Tribhuvan University, Nepal Relevant Courses: Probability and Statistics, Numerical Methods, Image Processing and Pattern Recognition 2011 - 2015 (82.97%) Distinction
Scholarships & Awards	AWS Machine Learning Scholarship for AWS MLE Foundations course Nanodegree Program by Udacity and Amazon AWS 2021
	Prof. F.N. Trofimenkoff Academic Achievement Award for graduating top of the class (2015) in BE Electronics and Communications Engineering 2019
	RIT Ph.D. Merit Scholarship , Financial assistance for Ph.D. studies at Rochester Institute of Technology Aug 18 - Present
	Ncell Scholarship and Excellence Award , of NRs. 100,000 was awarded to top student of BE Electronics and Communications, Electrical and Communication, and Computer 2015, 2016
	The College Fellowship Scholarship , in various semesters (viz. Years/Semesters I/I, I/II, II/II, III/I, III/II, IV/I) and and Full-fee scholarship in semester I/II 2011 - 2015
Technical Skills	Languages : Python, C++, Matlab Deep Learning Tools : PyTorch, Basic Tensorflow, and Keras
Journal Article	Embedding High-dimensional Bayesian Optimization via Generative Modeling: Parameter Personalization of Cardiac Electrophysiological Models Dhamala, J., Bajracharya, P. , Arevalo, H. J., Horcek, B. M., Wu, K. C., Trayanova, N. A., Wang, L. <i>Medical Image Analysis (MedIA)</i> , 2020
Conference Article	Semi-supervised Medical Image Classification with Global Latent Mixing Gyawali, P. K., Ghimire, S., Bajracharya, P. , Li, Z., Wang, L. (2020). Semi-supervised Medical Image Classification with Global Latent Mixing. arXiv preprint arXiv:2005.11217. <i>Medical Image Computing and Computer Assisted Intervention(MICCAI)</i> , 2020
	Indoor Odometry and Point Cloud Mapping Ligal, P. S., Acharya, B., Bajracharya, P. , Shrestha, P., Pokharel, P., Ghimire, S. K. Indoor Odometry and Point Cloud Mapping. <i>Proceedings of IOE Graduate Conference</i> , 2017
Experience	Research Assistant Computational Biomedicine Lab Rochester Institute of Technology, NY, US Research area: Bayesian active learning and its use for uncertainty quantification in multiscale multi-physics models; Deep learning and Machine Learning Jun 19 - Present
	Teaching Assistant Aug 18 - May 19

Imaging Science Department
Rochester Institute of Technology, NY, US

Senior Developer

Aug 16 - June 18

Kazi Studios, Bhanimandal, Lalitpur, Nepal
Development of Web based solutions, and CRM systems including medical inventory system, and tourism portals. Also worked on smart home system controlled via android, and IOS platform.

Teaching Assistant

April 16 - Aug 16

Department of Electronics and Computer Engineering
Pulchowk Campus, Tribhuvan University, Nepal

System Engineer

Nov 15 - April 16

E&T Nepal Pvt. Ltd., Lokanthali, Bhaktapur, Nepal
Development of Calculation Solver for CFD simulation with CUDA on NVIDIA GPUs for simulation software "MUJO"

Collaboration Project Internship

May 14 - Dec 14

E&T Nepal Pvt. Ltd., Lokanthali, Bhaktapur, Nepal
Took on research project named High Speed Data Transfer to make the existing data transfer faster.

Extra Projects

Gesture recognition for understanding American Sign Language

A deep learning based implementation of gesture recognition on Kaggle MNIST dataset and Kaggle dataset for ASL Alphabet to understand the gesture hand shapes signed in front of a camera.

- **Tools:** Keras and OpenCV

Certification

- **Neural Networks and Deep Learning** by deeplearning.ai on *Coursera*

Verify : coursera.org/verify/3MPX68UEQPTL

- **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** by deeplearning.ai on *Coursera*

Verify : coursera.org/verify/BGCCNBWNM5LY

- **Build Basic Generative Adversarial Networks (GANs)** by deeplearning.ai on *Coursera*

Verify : coursera.org/verify/4LNV43GKRDUM

- **Bayesian Methods for Machine Learning** by National Research University Higher School of Economics on *Coursera*

Ongoing