

Pradeep Bajracharya

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Research Interest	<i>Bayesian active learning, Uncertainty Quantification, Deep learning and Machine Learning</i>	
Education	PhD in Computing and Information Sciences	2018 - Present
	Rochester Institute of Technology, Rochester, NY, USA Advisor: Dr. Linwei Wang Research Group: CBL Lab Relevant Courses: Deep Learning, Image Processing and Computer Vision, Probability, Noise System Modeling	
	Bachelor in Electronics and Communication Engineering,	2011 - 2015
	Pulchowk Campus, Tribhuvan University, Nepal (82.97%) Distinction Relevant Courses: Probability and Statistics, Numerical Methods, Mathematics I, II, III, IV, Computer Programming I, II, Signal Analysis, Image Processing and Pattern Recognition	
Scholarships & Awards	Prof. F.N. Trofimenkoff Academic Achievement Award	2019
	for graduating top of the class (2015) in BE Electronics and Communications Engineering	
	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
Technical Skills	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
	Languages : Python, C++, C	
	Tools/Framework : Matlab	
	Deep Learning Tools : PyTorch, Basic Tensorflow, and Keras	
Conference Article	Database : MySQL, MongoDB	
	Familiar : Symfony, Laravel, PHP, Javascript, HTML, CSS, NodeJS	
	Miscellaneous : Git, L ^A T _E X, Object Oriented Programming	
	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, 2017</i>	
Experience	Research Assistant	Jun 19 - Present
	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	
	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 project named High Speed Data Transfer to make the existing data transfer faster.
Projects	Blindness Assistive tracing Band Aug 2015 Hardware interface with LiDAR and camera to trace environment for visually impaired person <ul style="list-style-type: none"> • Technology/Tools: C in Arduino • Role: Programmer and Hardware designer and developer (in team of 4) 3D Scanning and Odometry Nov 2014 - Aug 2015 Hardware based project that scans the surrounding using LiDAR (Light Detection and Ranging) and creates 3D map after scanning. Mapping and Visualization is implemented using Point Cloud Library for filtering and segmentation. <ul style="list-style-type: none"> • Technology/Tools: C/C++ in Arduino and Qt Creator with OpenGL • Role: Programmer and Hardware designer developer (in team of 4) High Speed Data Transfer May - Dec 2014 High Speed Data Transfer (HSDT) is a project for increasing the data transfer speed of existing network infrastructure in collaboration with E&T Nepal Pvt. Ltd. It implemented new transport layer protocol named UDT. <ul style="list-style-type: none"> • Technology/Tools: C++ in Visual Studios 2012 • Role: Programmer and Team Lead (in team of 2) Ethernet based Home automation May - Aug 2014 A Web interface, created in HTML, that allows the user to control various household appliances linked via the Ethernet network through any web based consumer electronics. <ul style="list-style-type: none"> • Technology/Tools: C in Atmel Studio, HTML • Role: Programmer and Hardware designer and developer (in team of 4)
Certification	<ul style="list-style-type: none"> • Neural Networks and Deep Learning by deeplearning.ai on <i>Coursera</i> Verify : coursera.org/verify/3MPX68UEQPTL • Bayesian Methods for Machine Learning by National Research University Higher School of Economics on <i>Coursera</i> <i>Ongoing</i>
Professional Service	<ul style="list-style-type: none"> • Head Designer for "Locus Journal" magazine (a tech magazine focusing on the latest in technology and research paper from students) for LOCUS - Technological Festival, Pulchowk Campus, Tribhuvan University, Nepal (2015) • Co-editor Magazine for Rotaract Club of Lalitpur, Nepal covering different events

organized throughout the year (2014/2015)

- Stage Management Coordinator Candle Walk 1135, an annual event organized every year by the Rotaract Club of Lalitpur, Nepal on the festival of Tihar (Oct 2014)
- Head Designer for the first issue of "Graphene" magazine, a tech magazine focusing on the latest in technology (2012)

**Additional
Activities**

- Technician Level Amateur License Holder in Nepal (2016 - Present)
- Technician Level Amateur License Holder in USA (2019 - Present)
- Volunteering experience at LOCUS - Technological Festival, Pulchowk Campus, Tribhuvan University, Nepal.