Bimal Bhattarai

Personal Information

DATE OF BIRTH:	Nepal	December 26, 1991
ADRRESS:	Grimstad, Norway
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	bhattaraibimal.com.np

Education

2001-2015	BE in ELECTRONICS AND COMMUNICATION , **JNTUA**, Kavali, India
2017-2019	MSc. in **ICT**,**Chosun University**, South Korea
2019-2023	PhD in **Artificial Intelligence**,**University of Agder**, Norway

Links

Facebook:// **bimal.bhattarai.165**
Github:// **bobsbimal58**
LinkedIn:// **bimal-bhattarai**
Twitter:// **@Bobsbimal58**

Courses

4.1 PhD

Advanced Pattern Recognition
Principle of Artificial Intelligence
Learning in Random Environments
Deep Learning Specialization

4.2 Masters

Estimation and Optimization
Advanced pattern recognition and media understanding
Multimedia Image processing
Robot Navigation
Mobile Computing

4.3 Teaching

Distributed System and Big Data (more than 200 hours)
Learning Systems (110 hours)

Work Experience

ZTE Pvt. Ltd.	BASE STATION ENGINEER
	*October 2016 - March 2017	Nepal*

ZTE Pvt. Ltd.	BASE STATION ENGINEER INTERN
	*September 2016 – October 2016	Nepal*

Research

WMCS Lab	**Graduate Research Assistant** *March 2017 – March 2019 | South Korea* Graduate research assistant at Wireless and Mobile Communication System (WMCS) Lab. Worked in a project related to Indoor Positioning System using Bluetooth, magnetic field, and augmented reality to design an commercial android application and tested it in the university building.
CAIR Group	**PhD Researcher** *September 2019 – September 2023 | Norway* PhD at CAIR - Centre for Artificial Intelligence Research, one of the biggest AI group in Norway. Currently, working under supervision of Prof. Ole-Christoffer Granmo **Prof Ole-Christoffer Granmo** to design better chatbots using NLP and explainable AI.

Awards and Scholarships

2019	Selected as a PhD researcher at University of Agder
2017	Excellent International Student Scholarship provided by Chosun University
2015	Best Network Design Award
	Won india's Biggest Networking Championship (IBNC) conducted by Indian Institute of Technology (IIT).
2011-2015	Partial Scholarship provided in Bachelor program
2008-2010	Nobel merit full Scholarship provided by High School
2002-2008	Moon light merit full scholarship provided by secondary school

Software

Over 5000 lines:	Python, Android, LaTeX
Over 1000 lines:	C, MySQL, Cython, Access

Publications

[1] B. Bhattarai, K. D. Abeyrathna, M. Goodwin, S. Gorji, O. C. Granmo, L. Jiao, R. Saha, and R. K. Yadav. Massively Parallel and Asynchronous Tsetlin Machine Architecture Supporting Almost Constant-Time Scaling. In *The Thirty-eighth International Conference on Machine Learning (ICML 2021)*. ICML, 2021.

[2] B. Bhattarai, H.-S. Gang, and J.-Y. Pyun. Deep neural network architecture for geomagnetic based indoor positioning system. In *Korea Telecommunications Society Conference*, pages 1408–1409. , 2019.

[3] B. Bhattarai, O.-C. Granmo, and L. Jiao. Measuring the novelty of natural language text using the conjunctive clauses of a Tsetlin machine text classifier. In *Proceedings of ICAART*, 2021.

[4] B. Bhattarai, O.-C. Granmo, and L. Jiao. Convtexttm: An explainable convolutional tsetlin machine framework for text classification. In *Proceedings of the Language Resources and Evaluation Conference*, pages 3761–3770, Marseille, France, June 2022. European Language Resources Association.

[5] B. Bhattarai, O.-C. Granmo, and L. Jiao. Explainable tsetlin machine framework for fake news detection with credibility score assessment. In *Proceedings of the Language Resources and Evaluation Conference*, pages 4894–4903, Marseille, France, June 2022. European Language Resources Association.

[6] B. Bhattarai, O.-C. Granmo, and L. Jiao. A tsetlin machine framework for universal outlier and novelty detection. In *Agents and Artificial Intelligence*. Springer International Publishing, 2022.

[7] B. Bhattarai, O.-C. Granmo, and L. Jiao. Word-level human interpretable scoring mechanism for novel text detection using tsetlin machines. *Applied Intelligence*, 2022.

[8] B. Bhattarai, S.-S. Hwang, and J.-Y. Pyun. An efficient geomagnetic indoor positioning system using smartphones. In *The 3rd International Conference on Next Generation Computing*, 07 2018.

[9] B. Bhattarai, R. K. Yadav, H.-S. Gang, and J.-Y. Pyun. Geomagnetic field based indoor landmark classification using deep learning. *IEEE Access*, 7:33943–33956, 2019.

[10] R. Kumar Yadav, B. Bhattarai, L. Jiao, M. Goodwin, and O.-C. Granmo. Indoor space classification using cascaded lstm. In *2020 15th IEEE Conference on Industrial Electronics and Applications (ICIEA)*, pages 1110–1114, 2020.

[11] R. K. Yadav, B. Bhattarai, H.-S. Gang, and J.-Y. Pyun. Trusted k nearest bayesian estimation for indoor positioning system. *IEEE Access*, 7:51484–51498, 2019.

PATENT

B. Bhattarai, J. Y. PYUN, and H. S. GANG. Magnetic field based indoor positioning method using smart device and system having the method, Sep 2019 , Link.