

Binay Dahal

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EDUCATION

UNIVERSITY OF NEVADA

PH.D. IN COMPUTER SCIENCE
Present | Las Vegas, Nevada

UNIVERSITY OF NEVADA

MS IN COMPUTER SCIENCE
May 2018 | Las Vegas, Nevada
Cum. GPA: 4.0

KATHMANDU UNIVERSITY

BE IN COMPUTER SCIENCE AND
ENGINEERING
May 2013 | Dhulikhel, Nepal
Cum. GPA: 3.82

LINKS

Personal: <https://binays.github.io>
LinkedIn: binay-dahal
Twitter: [@binay_s](https://twitter.com/binay_s)

COURSEWORK

GRADUATE

Intelligent Systems and
Machine Learning
Deep learning in big data
Advanced Database
Big Data
Multiparadigm Programming
Computational Geometry
Information Assurance

UNDERGRADUATE

Data Structures and Algorithms
Structural Programming in C
Object oriented Programming in C++
Artificial Intelligence
Operating Systems

SKILLS

BIG DATA & AI

Spark • Hadoop • Kafka • HBase •
Scikit-learn • Supervised Learning •
Unsupervised Learning • CNN •
Autoencoder • CoreNLP

PROGRAMMING

Over 5000 lines:

Java • C++ • Android

Over 1000 lines:

C • Python • Keras • Tensorflow •
Scala • Matlab • UnityEngine • MySQL

PEER REVIEWED PUBLICATIONS

- Dahal, Binay, and Yoohwan Kim. "AutoEncoded Domains with Mean Activation for DGA Botnet Detection." 2019 IEEE 12th International Conference on Global Security, Safety and Sustainability (ICGS3). IEEE, 2019.
- Zhan, Justin, and Binay Dahal. "Using deep learning for short text understanding." Journal of Big Data 4.1 (2017): 34.
- Gewali, Laxmi, and Binay Dahal. "Algorithms for Tower Placement on Terrain." 16th International Conference on Information Technology-New Generations (ITNG 2019). Springer, Cham, 2019.
- Gewali, Laxmi, and Binay Dahal. "Covering 1.5 D Terrain by Common Height Towers." 2018 26th International Conference on Systems Engineering (ICSEng). IEEE, 2018.

ON REVIEW RESEARCH PAPERS

- Effective Mutation and Recombination for Evolving Convolutional Neural Networks. Submitted to IEEE Int. Conf. on Big Knowledge, Beijing, China.
- Unified Approach to Scoring and Relative Ranking of Images based on its Aesthetics. Submitted to IEEE Access
- Machine Learning Models for Paraphrase Identification and its Application on Plagiarism Detection. Submitted to IEEE Int. Conf. on Big Knowledge, Beijing, China.
- Decentralized Marketplace using Blockchain, Cryptocurrency and Swarm Technology.

EXPERIENCE

LOGPOINT | ASSOCIATE RESEARCH ENGINEER

Sep 2015- July 2016 | Kathmandu, Nepal

- Designed and implemented the pipeline for detecting DGA Botnets from realtime logs (Kafka, Spark, HDFS, HBase, Bloom filter).
- Proposed and solved the problem of sharing the bloom filter across multiple spark windows which enabled the above implementation.
- Used Flume to integrate Kafka and HDFS which served as an important component of batch layer in lambda architecture that we were developing.

PERSONAL & FREELANCED PROJECTS

- Meedge- Buying and Selling App, Android
- FifteenMe- A 2D arcade game, Published in Play Store
- Morphological Analyzer for Nepali Language (Java)
- Face recognition using eigenface (Java)
- Wireless Notifier System (Java Servlet, Tomcat, Android)

AWARDS

2013	1 st /30	Best Project in Internal Software Meet
2013	2 nd /50	Kathmandu University Software Meet
2009	1 st	Awarded Simula Research Lab Scholarship