

Umanga Bista

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Summary

Highly motivated and energetic computer engineering undergrad with good programming and analytical skills, and aspire to become a successful computer science researcher. The areas of interest are Machine learning and statistical data analysis, algorithms and optimizations and not limited to.

Professional Experience

2013 Oct-now	Research Assistant at LogPoint I work on streaming and distributed algorithms and statistical techniques for Log data mining and anomaly detection for SIEM solutions. Refree : Dr. Basanta Joshi, basanta.joshi@logpoint.com, Research Consultant, LogPoint, Lalitpur, Nepal Head Office : Copenhagen, Denmark
2013 Feb-Sept	Intern at Office of Company Registrar I was working as an intern researcher and programmer and involved in a team which was working for prospects of financial documentations representation and mining using XBRL. Refree : Er. Sansar Jung Dewan, sansardewan@gmail.com, Head, IT Department, Office Of Company Registrar, Nepal Government, Kathmandu, Nepal

Education

2009-2013	Bachelors in Computer Engineering <ul style="list-style-type: none">◦ Tribhuvan University, Institute of Engineering, Central Campus Pulchowk◦ Grade: 78.6%, First Division Awards <ul style="list-style-type: none">◦ Received Full-scholarship based on merit of entrance exam. [2009-2013]◦ Received Stipends based on merit of semester exams.[2009-2013]◦ Best Implemented Project Award for Major Project
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Publications

- 2014 | B. Joshi, U. Bista, and M. Ghimire. Intelligent clustering scheme for log data streams. In A. Gelbukh, editor, *Computational Linguistics and Intelligent Text Processing*, volume 8404 of *Lecture Notes in Computer Science*, pages 454–465. Springer Berlin Heidelberg, 2014
PDF : <http://bit.ly/1o4iFs9>

Coursera Accomplishments

2013. | **Machine Learning**
◦ Andrew Ng, *Stanford University*
Design and Analysis of Algorithms
◦ Tim RoughGarden, *Stanford University*
Introduction to Data Science
◦ Bill Howe, *University of Washington*
Computing for Data Analysis
◦ Roger D. Peng, *John Hopkins University*
Image and Video Processing ..
◦ Guillermo Sapiro, *Duke University*
- 2014 | **Unpredictable? Randomness, Chance and Free will**
◦ Valerio Scarani, *National University of Singapore*
Data Analysis and Statistical Inference
◦ Dr. Mine etinkaya-Rundel, *Duke University*
Exploratory Data Analysis
◦ Roger D Peng, Jeff Leek, Brian Caffo, *Johns Hopkins University*
Functional Programming Principles in Scala
◦ Martin Odersky, *cole Polytechnique Fdrale de Lausanne*

Skills

Programming	Python, R, Octave/MATLAB, Java, C, C++, Scala
Documentation	L ^A T _E X, Markdown, Ipython Notebook, R Markdown, MS Word
Databases	SQLite, MySQL
Web	HTML, XML, XBRL, JSON, CSS, Jekyll
Operating System	Ubuntu, Windows [XP, 7, 8], OS X
IDE & Tools	Git, Eclipse, Sublime Text, Spyder, R-Studio, CodeBlocks, TexMaker, Visio

Languages

Nepali	Mother tongue
English	Fluent

Project Portfolio

Campus Major Project	<p>U. Bista, A. Basnet, A. Shrestha, and S. Pant. Xbri implementation for financial reporting to the office of company registrar. Technical report, Institute of Engineering, Central Campus Pulchowk, Tribhuvan University, Pulchowk, Lalitpur, Nepal, September 2013. Major Project Report</p> <p>A research project carrying out the study of prospects and implementation of XBRL for representation , open data initiation and mining of financial reports submitted to the Office of Company Registrar.</p> <p>PDF : http://bit.ly/1mAdpNl</p>
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Referees

Available on request.