Curriculum Vitae – Sushant Kafle

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EDUCATION

2015 – Present:	**Ph.D. Student in Computing and Information Science** (Cum. GPA: 3.945) Golisano College of Computing and Information Sciences (GCCIS), Rochester Institute of Technology (RIT), Rochester, NY, USA *Research Areas:* human computer interaction, accessibility for people who are deaf or hard-of-hearing, computational linguistics, machine learning. *Funding:* Research Assistantship (National Technical Institute for the Deaf (NTID) funded project)
2011 – 2014:	**Bachelor of Engineering (B.E.) in Computer Engineering** (Rank: 3rd of 48) Tribhuwan University, Pulchowk Engineering Campus, Lalitpur, Nepal. *Research Areas:* computer linguistics, machine learning, information retrieval *Thesis:* Interest Rate Prediction of Banks - *Funding:* 2011 – 2014: Scholarship for B.E. Program and The College Fellowship Scholarship 2013 – 2014: Yomari Pvt. Ltd Funded Project

PROFESSIONAL EXPERIENCE

2015 – Present:	**Research Assistant** at the Linguistic and Assistive Technologies Laboratory (LATLab). *Supervised by:* Dr. Matt Huenerfauth. *Involved in the project:* "Creating the Next Generation of Live-Captioning Technologies", National Technical Institute for the Deaf (NTID).
2014 – 2015:	**Software Developer** at Viveka Health. Worked on creating web services for Viveka Health's engine that worked towards eliminating fraud, waste and abuse in medical claims payment process.
2013 – 2014:	**Research Intern** at Yomari Pvt. Ltd. *Supervised by:* Dr. Arun Timalsina. *Involved in project:* "Interest Rate Prediction of Banks".
2012 – 2013:	**Summer Intern** at Verisk Information Technology. Worked to optimize and automate Scrub-QC of the 'd2hwakeye' engine used by the company.

AWARDS AND SCHOLARSHIPS

RIT Ph.D. merit Scholarship, 2015 - 2016
Full Scholarship for Bachelors in Engineering Program, 2011
The College Fellowship Scholarship, 2011 – 2014
Academic Excellence Award (Bachelors in Computer Engineering), 2011
Winner of Startup Weekend Kathmandu, 2012
Winner of Integrity Hackathon, 2013

PUBLICATIONS

Kafle, S. and Huenerfauth, M. 2016 (to appear). Effect of Speech Recognition Errors on Text Understandability for People who are Deaf or Hard of Hearing. *In Proc. of 7th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT),* INTERSPEECH 2016, San Francisco, USA.

SOME ACADEMIC AND NON-ACEDEMIC PROJECTS

Interest Rate Prediction of Banks	*Research Intern at Yomari Pvt. Ltd., 2013* *Funded by: Yomari Pvt. Ltd.* Worked toward building an Information Retrieval System that extracts relevant news information and computes sentiment values using our pre-built knowledge base (cognitive maps). It also analyzes various factors that plays important roles in the prediction of the interest rate. The major outcome is the predicted numerical value of interest rate and the various visualization of trends of fluctuation of interest rate with respect to the contributing factors. [*http://kaflesushant.com.np/plain/papers/ioeconf.pdf*]
3D Post Processor (Particle Analysis)	*Research Intern at E&T Nepal, 2012* *Funded by: E&T Nepal Pvt. Ltd* Particle Viewer is a GUI for realistic particle-container interaction simulation and analysis. It uses particle physics with appropriate shaders to simulate and render realistic particles interacting inside a container.
Easy-Yatra	*Startup Weekend Kathmandu, 2013* A web-plus-mobile application to know the whereabouts of public vehicles inside the Kathmandu city. Unpredictability of public transport leading to hours of delay to the intended work in the city led to the development of this service. It uses our designed GPS transmitter that pushes real-time data to our server. Users are able to query our system via SMS or application query via the internet. [*http://www.slideshare.net/getsushant/easy-yatra-presentation-new-style*]
Kabach	*Violence Against Women Hackathon, 2013* Kabach (translates to Armor) is an mobile based application that provides real-time rescue solution for VAW(Violence Against Women) actions. It has a simple interface that generates alerts to Nepal Police Department in-case of any VAW actions. The alerts can be triggered using a button push or a shake (if needed). A complaint system allows a 3rd party(witness) to generate an alert as well. The application could also generate and sends help messages in case of emergency.

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM)

TECHNICAL SKILLS

Programming Languages: Python, Java, MATLAB, R, C/++, Bash
Markup Languages & Web: HTML/5, XML, CSS, LaTeX, Javascript (JQuery), Django,
Spring Framework, PhP
Databases & Query Languages: SQL, MySQL, PL/SQL, SQLServer