

Suresh ALSE

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BLOG: [Life Plus Linux](#)

LINKS: [Github](#) | [LinkedIn](#) | [Website](#)

EDUCATION

CURRENT MS, Computer Science (Data Science)
University of Southern California, Los Angeles

MAY 2014 BTech, Information Technology
National Institute of Technology Karnataka, Surathkal **GPA: 4.0**

WORK EXPERIENCE

AUG '14 - AUG '15	Software Development Engineer, Intuit Inc. Worked on core development of QUICKBOOKS, an accounting software used by several million users all over the world.
MAY - JULY '13	Summer Intern, Intuit Inc. Worked with QUICKBOOKS android team and developed a code generator that can automatically generate JAVA code for new features based on old features with minimum or no human intervention.
NOV - DEC '12	Intern, Bilent. Worked on KYASH which is an online payment system which helps people to work in mutually beneficial and trusted environment.
MAY - JULY '12	Summer Intern, Indibits Web and Business Solutions. Worked on an open-source wiki application.

RELAVENT PROJECTS

- **Social Event Detection using Multimodal clustering** - I discovered event-related multimodal multimedia and organized them in event-specific clusters. SIFT features were extracted from images to represent them numerically. Then I used a supervisory signal and SVM to perform multimodal clustering. This approach essentially achieves “supervised fusion” of heterogeneous features and retrieves clusters that are related to social events.
- **Call center data analysis** - This involved analysis of Intuit’s crucial call center data to minimize the number of calls made by customers. I extracted noun phrases from the customers’ problems and clustered similar problems. I was able to generate patterns that could predict the problems that customers may face in future, thus preventing them from making multiple calls.
- **Columbus, Discovering composite Web Services** - Using features in WSDL, similarities between web services are obtained and they are clustered using k-means. Tags are generated for a web service from neighbors or from their WSDL. These tags help in reducing the number of web services considered for service composition for a request. A service dependency graph (SDG) is generated. Composite services are discovered by a search algorithm in SDG which captures the input output dependencies among the services.

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, Lisp and PHP
Technologies: Matlab, Octave, ns2, node
Operating Systems: Windows, Mac and Linux

PUBLICATIONS

- Alse, S, et al, “A State Transition Based Approach to Recognize Gestures Using Multi-Level Color Tracking”, 2nd International Conference on Advances in Computing, Communications and Informatics, IEEE International Publishing, 2013, 704-708.
- Alse, S, et al, “A Real Time Multiplayer Gaming Network Platform as a Service”, Eighth International Conference on Computer communication networks (ICCN 2014), Elsevier International Publishing, 2014, Ch 19.
- Alse, S, et al, “Automatic Generation of Web Service Composition Templates Using WSDL Descriptions”, 2nd International Conference on Information Systems Design and Intelligent Applications, Springer India, 2015, 2194-5357.