Suresh Alse

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Education

Dec 2016	MS, Computer Science	
	University of Southern California, Los Angeles	GPA: 3.58
May 2014	BTech, Information Technology	
	National Institute of Technology Karnataka, India	GPA: 4.0

Work Experience

Sep '15 - Current | Student Researcher, **Information Sciences Institute**, Los Angeles
Working on a python based REST service for Karma, an information integration tool – to automatically assign semantics to large data sets from heterogeneous sources based on their features using several statistical and Machine Learning techniques.
Tech stack | **Python, Machine Learning, AI, Spark, Elasticsearch.**

May '16 - Aug '16 | Summer Intern, **Adobe Systems**, San Francisco
Working with adobe.com team to build a tool to generate reports about statuses of links to www and AEM from several data centers. The tool includes features such as data visualization, checksum verification, scheduled reports and aggregation of data.
Tech stack | **Nodejs, Graphite, Adobe Experience Manager.**

Aug '14 - Aug '15 | Software Engineer, **Intuit Inc.** Bangalore
Worked on core development of QuickBooks, an accounting software used by millions all over the world. I efficiently drove several initiatives in QB core and QB Help. I also worked with QuickBooks android team and developed a code generator that can automatically generate java code for new features based on old features which in turn reduced development, testing and maintenance time to a great extent.
Tech stack | **C++, C#, .NET, MFC, Java, Android.**

Relevant Projects

- **Pai-deia** | alseambusher.github.io/Paideia | **Java, C++, Android, Deep Learning**
  This is a Deep Learning based android app that uses Tensorflow and detects objects around you though camera and maps it into one of the classes in Imagenet and then pulls more information about what the user is seeing from Wikipedia and Wolfram Alpha. The results are also tweaked based on a learning model that monitors user's activity and shows more relevant content over time.
- **Santander Customer Satisfaction** | **Python, XGBoost, Kaagle**
  In this project, I worked on a Kaggle problem by Santander to classify which customers are happy. It was a binary classification problem with 371 unknown attributes, 76,020 samples for training and 75,818 samples for testing. We used techniques such as outlier detection with clustering, dimensionality reduction, feature engineering, cross validation and classification to arrive at the final result with an accuracy of 84.27%.
- **Social Event Detection** | github.com/alseambusher/SED | **Python, Machine Learning**
  In this project, I discovered event-related multimedia and organized them in event-specific clusters, within a collection of Web multimedia. The dataset was multimodal – images along with metadata such as location, description and timestamps. SIFT features were extracted from images to represent them numerically. Then we used an easy to obtain supervisory signal and a SVM classifier to perform multimodal clustering to detect social events.

Technical Skills

Programming Languages:	Python, Java, JavaScript, C/C++
Web frameworks:	node.js, webapp2, django, React, SASS
Others:	Android, Spark, Machine learning, Artificial Intelligence

Top Publications - Google Scholar: https://goo.gl/DZFPZA

- Pham, M, et al, "Semantic labeling: A domain-independent approach", 15th International Semantic Web Conference (ISWC), 2016.
- 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, 2015.
- Alse, S, et al, "A Real Time Multiplayer Gaming Network Platform as a Service", 8th ICCN, Elsevier International Publishing, 2014, Ch 19.
- Alse, S, et al, "A State Transition Based Approach to Recognize Gestures Using Multi-Level Color Tracking", 2nd ICACCI, IEEE International Publishing, 2013, 704-708.