SHUBHESH **AMIDWAR**

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EDUCATION

- ***University of Southern California***
  Masters in Computer Science
  January 2018 - December 2019

- ***Pune University (RSCOE)***
  Computer Engineering
  June 2013 – May 2017

TECHNICAL SKILLS

- **Operating Systems** : Windows, Linux
- **Programming Languages** : C, C++, Python
- **Database** : MySQL, MongoDb
- **Analytics** : SAS JMP, Tableau
- **Frameworks** : Django
- **Cloud** : GCP, AWS
- **Development Platforms** : Unity
- **Other Tools** : Git, Bitbucket

COURSES TAKEN

Analysis of Algorithms, Database Systems, Data Mining-Data Warehousing-Business Intelligence, Artificial Intelligence, Information Retrieval & Web Search Engine, Augmented-Virtual & Mixed Reality, Geospatial Information Management.

PROJECTS

- **Augmented Reality + Internet of Things** – ***USC AiR***
  - Developed an Android/ IOS application for detecting air quality, temperature, humidity and other factors in real time using various sensors placed on campus in University of Southern California.
  - Used UNITY for visualization of these various factors.

- **Search Engine Enhancement – Mercury News**
  - Indexed the Webpages using Solr with Lucene.
  - Developed autocomplete feature using multiple technologies – php and jquery.
  - Implemented a snippet feature and spell corrector feature for search results.

- **Text Analysis for Author Identification using Machine Learning:**
  - Found a solution to plagiarism by implementing a system for author identification using machine learning algorithms and text data mining; we dealt with literature in Devanagari script.
  - Algorithms used – K Nearest Neighbour, Support Vector Machine and C5.0

- **Data Warehousing and Business Intelligence:**
  - Predicted the churn rate of a telecom customer to help improve retention rate and profit.
  - Implemented an ensemble model including Decision Tree model, Neural Network and Liner Regression, achieving an accuracy of 92% and a lift of 1.1 over base model.

- **Plagiarism detection using Supervised Machine Learning Algorithm:**
  - Developed a plagiarism detecting system using a supervised machine learning algorithm – Naïve Bayes.
  - Accuracy of 100% was achieved on the testing data.

WORK EXPERIENCE

- **Webmaster for Viterbi School of Engineering, USC**
  - Created and maintained new web pages using Javascript.
  - Tracked analytics to analyze web usage and provided recommendations to improve the website.

PUBLICATIONS

- Research Paper titled 'An Immersive Visualization of Micro-climatic Data using USC AiR' published in 'Association of Computing Machinery' (http://anrg.usc.edu/www/papers/USCAir_MobiSys_Demo.pdf)
- Research Paper titled 'Text Analysis for Author Identification using Machine Learning' published in 'Journal of Emerging Technologies and Innovative Research' (http://www.jetir.org/papers/JETIR1706030.pdf)
- Research Paper titled 'Plagiarism Detection using Supervised Machine Learning Algorithm' published in 'Journal of Emerging Technologies and Innovative Research' (http://www.jetir.org/papers/JETIR1706044.pdf)

LEADERSHIP SKILLS AND EXTRA CURRICULAR

- Co-General Secretary for Association of Computer Engineering Students.
- Gold Medalist; Senior Year of Engineering.
- Website development and Blogger at www.wheresthefooood.com