JAYASREE AG

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EDUCATION

University of Southern California *Aug. 2018 – May 2020*
MS Computer Science | CGPA: 3.24 / 4.0
• Coursework: Algorithms, Machine Learning, Artificial Intelligence, Web Technologies, Data Mining, Databases, Information Retrieval

Amrita Vishwa Vidyapeetham *Jul. 2014 – Apr. 2018*
BTech Computer Science & Engineering | CGPA: 9.31 / 10 *Amrita Nidhi Scholarship*
• Coursework: Software Engineering, Big Data Analytics (Hadoop), Computer Architecture

SKILLS

• **Languages/Technologies**: Python, Java, C++, C, MySQL, HTML, CSS, PHP, Spark, Angular7, NodeJS, XML, AJAX, jQuery, JavaScript, NoSQL, Pig, Hadoop, MongoDB, Windows

PROJECTS

Solr Web Search Engine (Solr, Python, PHP, HTML, CSS) *May. 2020*
• Developed a search engine to display results of NYTimes.com inclusive of autocomplete and spell check features
• Incorporated Lucene and PageRank algorithm using the inverted index of downloaded HTML files of NYTimes, created by Solr and TIKA parser

Weather Forecast Web App (Angular7, NodeJS, HTML, CSS, Bootstrap) *Nov. 2019*
• Designed a webpage to display detailed weather report of the following week for any location using DarkSky API
• Deployed the app on the Azure cloud platform

Food Truck Android App (Android Studio, Java) *Feb. 2020*
• Created an app to display food trucks open that day with detailed description
• Implemented google map locations for food trucks that shows respective description on click

E-Commerce Result Integrator (PHP, HTML, MySQL) *Jan. 2018 – Apr. 2018*
• Built a meta-search engine on e-commerce websites to display most relevant products
• Incorporated a user-specific weighted approach to rank products in order of relevance (price, delivery time, rating)

Yelp Recommendation System (PySpark) *Oct. 2019*
• Trained and implemented a model to recommend the rating given by a user
• Incorporated user-based, item-based and model-based approaches to increase efficiency and higher accuracy

Heart Disease Prediction (Python) *Jan. 2019*
• Designed a Heart Disease predictor using K-Nearest Neighbors algorithm
• Implemented cross-validation over multiple k-values for various distance metrics on multi featured dataset

Voice Programmed Code Generator (Android, Java, C++) *Feb. 2017 – Apr. 2017*
• Created an Android App for generating downloadable C++ codes using voice queries
• Developed application in Android Studio and integrated 150 C++ modules for simple tasks (interest, palindrome)
• Incorporated Google Speech to Text API and shortlisted keywords to find most relevant code

EXPERIENCE

CarmaCam, USC– *Machine Learning Intern* *Aug. 2019 – Nov. 2019*
• Detecting and identifying illegal lane changes, over speeding and driver under influence of alcohol
• Developing a machine learning model using OpenCV and OpenALPR in Python

LinkedIn Campus Editing Team – *Data Analyst* *Feb. 2019 – May 2019*
• Prepared surveys by brainstorming ideas and collected feedback from USC campus to derive insights
• Performed data analysis using Excel to evaluate trends for publishing specific articles on LinkedIn

PUBLICATION

A Study of Various Result Merging Strategies for a Meta Search Engine (ISSN 2227-524X) *Jul. 2018*
• Analyzed various 'result merging algorithms' for providing user specific results in meta search engines
• Compared 10 algorithms on their performance in apt display of search queries
• Published in International Journal of Engineering & Technology (SCOPUS indexed, v. 7, n. 3.6, p. 255-258)