JAYASREE AG

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EDUCATION

University of Southern California   **Aug. 2018 - May 2020**
MS Computer Science   CGPA - 3.24 / 4.0
Amrita Vishwa Vidyapeetham   **Aug. 2014 - May 2018**
B.Tech Computer Science & Engineering   CGPA - 9.31 / 10.0

SKILLS

Languages: Python, Java, PySpark, MySQL, C++, C
Web: PHP, JavaScript, HTML, CSS, Bootstrap, jQuery, XML, Angular7, NodeJS, AJAX, TypeScript
Others: Oracle, PostgreSQL, XAMPP, WAMP, Solr, Azure, Android Studio, MongoDB

PROJECTS

Responsive Weather Forecast Webapp   **Nov. 2019**
V.1.0 (PHP, JavaScript, HTML, CSS) | V.2.0 (Angular 7, NodeJS, HTML, CSS, Bootstrap)
- Designed and deployed a dashboard on Azure to forecast weather for locations in US using DarkSky API
- Results comprised of multiple weather parameters with graphs for the following week
- Routed Google and DarkSky API calls in v.2.0 through NodeJS server setup on Azure
- Improved v.2.0 with responsive design using Bootstrap and added favorites tab feature

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

Food Truck Android App | Android Studio, Java   **Feb. 2020**
- Crafted an application to find open street food trucks in San Francisco along with map
- Initiated a description box with address, operating hours and items available for particular food truck, on click of respective location marker in the map view

Yelp Recommendation System | PySpark, Python   **Oct. 2019**
- Weighted features of Yelp dataset against each other to maximize accuracy
- Selected user, average stars of business, review count, latitude and longitude attributes
- Achieved RMSE of 1.07 on predicted user ratings with a trained user-based model
- Enhanced the model with a hybrid combination of XGBoost and SVD algorithms
- Accomplished higher accuracy and lower time taken with a RMSE at 0.981

EXPERIENCE

Machine Learning Intern| CarmaCam, USC   **Aug. 2019 – Nov. 2019**
- Drafted a model using OpenCV to detect over speeding vehicles in videos
- Identified vehicles labels using YOLO object detection algorithm
- Programmed speed calculator using detection box displacement and frame timing

Data Analyst | LinkedIn Campus Editing Team   **Feb. 2019 - May 2019**
- Brainstormed ideas with team to finalize survey questions for LCET LinkedIn post
- Teamed up to gather responses to the online questionnaire from USC students
- Analyzed the response data to represent majorities and minorities for topic of the month

PUBLICATION

A Study of Various Result Merging Strategies for a Meta Search (ISSN 2227-524X)   **July 2018**
- Reviewed 10 algorithms in comparison of performance to rank results for a search engine
- Published in International Journal of Engineering & Technology (SCOPUS indexed, v. 7, n. 3.6, p. 255-258)