ADITI VENKATESH

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OBJECTIVE

Seeking a full-time position starting Summer 2021 in the field of Computer Science, specializing in front-end development and/or Machine Learning.

EDUCATION

THE UNIVERSITY OF TEXAS AT DALLAS, **May 2021 (expected)**
Master of Science in Computer Science, **CGPA 3.3/4**
Coursework: Artificial Intelligence, Machine Learning, Natural Language Processing, Big Data Management Statistical Methods for AI and ML, Design and Analysis of Algorithms, Database Design, Discrete Structures

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING, **Aug 2015-May 2019**
Bachelor of Technology in Information Technology, **CGPA 8.2/10**

TECHNICAL SKILLS

Programming: Java, Python, C++, MATLAB
Development: HTML, CSS, JavaScript, Kotlin & Scala for Android
Tools and frameworks: Apache (Hadoop, Spark), HTK Speech Recognition, Gruff, LightGBM
Database: MongoDB, Oracle, MySQL

ACADEMIC PROJECTS

- **Bistro & Wine Bar database management (Sep 2020-present)** Using React, MongoDB, Node.js and Express
- **Disease-pathogen-location correlation (Sep 2020-present)** Integrating web semantic technologies and providing insights using SPARQL, Apache Jena Fuseki, Google visualization API
- **Customer transaction prediction in banking sector (May 2020-July 2020**) Using PySpark and Amazon Web Services (EMR and S3), ML classification framework LightGBM
- **Breast cancer prediction using mammogram data (Jan 2020-Apr 2020)** Using ML classification techniques including random forest and naïve bayes classifier
- **Online shopping database management (Sep 2019-Dec 2019)** Using Oracle, MySQL, functionalities for product orders, shipments, feedback and returns in the form of stored procedures and triggers
- **Infant cry diagnosis using speech recognition and ML (Oct 2018- Mar 2019)** Using MFCC feature extraction in HTK toolkit and python, ANNs, SVMs and other classification techniques such as decision trees and naïve Bayes classifier for cry signal classification and efficiency comparison
- **Hospital database system (Dec 2017)** Using Visual Basic, MySQL

EXPERIENCE

Intern, Summer Research Fellowship Program – Indian Institute of Technology, Madras (May 2018 - Jul 2018) Implemented techniques for signal processing – multivariate linear, polynomial and logistic regression, naïve Bayes classifier, K-means clustering, dimensionality reduction (PCA) and EM algorithm for GMMS in MATLAB**.**

Research Intern – Indian Institute of Technology, Madras (Oct 2018)
Implemented a java simulation for device-to-device networks to find the optimal package shortage-wastage trade-off for a given 5G cellular network.