AMRUTHA BHARGAVI RAJKUMAR

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EDUCATION

The University of Texas at Dallas **Expected Graduation**: December 2021
M.S., Software Engineering
Subjects: Machine Learning and Neural nets, Database Design, Web Programming Languages, Advanced Requirements Engineering, Data Structures and Algorithms, Object Oriented Software Engineering,

St. Joseph's College of Engineering **CGPA:** 8.12/10
B.E., Computer Science

TECHNICAL SKILLS

Languages: C/C++, Java, Javascript, Python, HTML5, CSS, SQL
Databases: MySQL, MongoDB, PostgreSQL
Frameworks & Tools: Angular, NodeJS, React JS, Spring Boot, Numpy, Pandas, Scikit Learning

EXPERIENCE

University of Texas at Dallas, Department of Computer Science **Aug 2020 - Present**
Teaching Assistant and Grader

- Grading assignments/tests for 50 undergraduate students for the subject CS1200 under Prof. Klyne Smith.

University of Texas at Dallas, Department of Computer Science **Jan 2020 – Aug 2020**
Student Assistant

- Conducted after-school coding camps for elementary and high school students, to promote computer science.
- Private tutored students on various topics of computer science.

Verizon **June 2017 – Dec 2019**
Software Engineer

- Full Stack Developer and worked with PEAN(PostgreSQL, Express, Angular, NodeJs, Redis) stack. Majorly responsible for converting legacy applications into open source apps.
- Area of expertise include design, development and integration of multi-tier web application components using PEAN/J2EE technologies.
- Worked on full life cycle development of applications using Java/J2EE technologies and frameworks like Spring MVC, Spring Batch, Spring Integration.

PROJECTS

URL Shortener **September 2020**

- Created a back end application using express server and MongoDB which will give a shortened version of any input URL and also tracks the number of clicks to the shrunk URL.

Breast Cancer Prediction **July 2020 - August 2020**

- Designed a neural network to predict breast cancer by running experiments on the Wisconsin Breast Cancer dataset. Trained two classifiers for this problem using Keras and Tensorflow,achieved an accuracy of 90%. Another classifier using Support Vector Machines using scikit-learn with an accuracy of 89% was designed .

Algorithm for inferring imperfect decision trees **June 2020 – Aug 2020**

- A classic ID3 algorithm keeps splitting nodes as long as the nodes have nonzero entropy and features are available. The implemented algorithm infers imperfect decision trees with a small number of nodes and with small entropy.

CERTIFICATIONS

- **AWS certified Cloud Practitioner** and has in depth knowledge about Amazon Web Services.
- **EMC Academic Associate** – Cloud Infrastructure and Services
- **B2 Business Vantage –** Cambridge English Assessment.