AKSHAYE ANITHA PRADEEP

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EDUCATION

Texas A&M University (TAMU)
Master of Science in Computer Science

📅 May 2020   CGPA: 3.83   📍 College Station, Texas

National Institute of Technology
Bachelor of Technology in Computer Science

📅 May 2017   CGPA: 3.23   📍 Calicut, India

SKILLS

Javascript, React, React-Native, HTML/CSS, C++, Java   ●●●●●

Python, SQL, PHP, PyTorch, Keras   ●●●●○

Ruby, Ruby on Rails, C#   ●●●○○

EXPERIENCE

JP Morgan Chase and Co
Software Engineer

📅 July 2017 – July 2018   📍 Bangalore, India

- Member of Digital Technology Web UI development team
- Worked with OOJS as well as ES6, React and SASS/CSS
- Developed software in a strictly agile environment
- Built responsive as well as ADA compliant user interface for Chase Online
- Maintained 90% unit test coverage with Sinon, Chai and Mocha

Summer Analyst

📅 May 2016 – July 2016   📍 Mumbai, India

- Performance Baselining of Java batch applications
- Developed a Java plugin to automate the above, hence reducing baseline creation time
- Evaluated different batch sizes for optimal performance

Quest Innovative Solutions Ltd.
Android Internship

📅 May 2015 – July 2015   📍 Kochi, India

- Developed an Android matchmaking application titled 'Datester'
- Gained a deep understanding of design process for a full application project
- Performed algorithm design and implementation in PHP (Server) and Java

LEADERSHIP

CSE Graduate Student Association
External Officer

📅 Aug 2018 - Present   📍 TAMU

- Responsible for communicating with other student organizations

Paathshala
Co-founder

📅 Aug 2015- May 2017

- Tutored underprivileged children who had limited access to primary education

PROJECTS

Human Robot Team Observation App

- A cross platform application to log robotics team details, built using React Native framework
- Teams can be monitored and the data can be exported as csv files as well as viewed later in the app
- Application live in iOS App Store and Google Play Store

FaceZam

- Ensemble-CNN model for facial emotion recognition
- Built a live Web application that can detect the emotion on a face and displays the corresponding emoji

aiTunes

- A novel approach to queue music to a user based on his present emotional state and the session-based data
- An LSTM model trained to detect the emotion from any song given as input
- Songs queued by polyfitting based on the emotional curve of a user's session history
- Built a web music player to demo the approach

Doodle Recognition

- A web based paint-like application where the user can doodle and the application will predict what the user has drawn
- Used the Google Quick Draw Doodle Dataset, a collection of millions of drawings, to train a resnet-34 deep learning model

Study Tracker

- A web application to enter study goals, track time spent working on goals and to adjust schedules as and when needed
- Material-UI front end developed with Javascript with a Ruby on Rails backend

Person Reidentification in the Wild

- A deep learning model to find a matching person in a gallery of images for a given image using facial and bodily features
- Used a Residual Attention Network to achieve the following results: top1: 0.7732. top5: 0.9

Music Genre Detector

- An Android application that detects the genre of a song given as input
- Mel-Frequency Cepstrum Coefficients extracted from each song were trained on a three layer neural network by employing the Back-propagation algorithm

Canteen Management System

- A web application with which a canteen admin can keep track of monthly users and a canteen user can view his monthly expenses