AKSHAY AJAY SHENVI

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Experience

1. Machine Learning Intern - Digital Reasoning

June 2020 - Present

Tech Stack: PyTorch, Python, Pandas, Numpy, matplotlib, scattertext, plotly, NLP, AWS – EC2, BiGRU, LSTM

- Researching and Developing an End-to-End(E2E) Mixed-language text transcription model on SEAME
 Mandarin Audio data DeepSpeech 2 architecture.
- Formatted data by segmenting chunks of audio and use it to conduct Mixed-language experiments.
- Data collection and modeling for Ghazal recommendation system. Performed N-gram modeling, data analysis
 & visualization for single author.

2. Full Stack Web Developer - Navdurga Pediatric Dental Centre

Dec 2016 - Mar 2018

Tech Stack: JavaScript, NodeJS, ExpressJS, ReactJS, JSON, REST APIs, AWS, MongoDB, GraphQL

- Planning, Designing & Developing a **Dentist Appointment Scheduling and Billing System**.
- Aim to boost the average appointment scheduling, rescheduling & billing time by 40%.
- Planning to cut down effort of storing and searching patient records by **30%**.

Projects

1. Recipe Web App:

June 2020 - Sept 2020

Tech Stack: HTML, CSS, Angular, Node.js, Express.js, Firebase, MEAN, JavaScript, TypeScript

- Built an angular web application for storing recipes and the ingredients needed to make it.
- The app also has a shopping list where the user can add the missing ingredients.

2. Grocery Shopping List Web app:

May 2020 – Aug 2020

Tech Stack: JavaScript, Node.js, Express.js, React.js, MongoDB, HTML, CSS, Heroku, Passport js

- Developed a Grocery List Web Application with React.js and Material UI with User specified custom lists and encrypted passwords.
- Deployed the Web app on Heroku with data base storage on MongoDB.

3. Ghazal Data Analysis and Visualization:

Jan 2020 - May 2020

- Scrapped Poetry data of 50,000 authors from a well-known Poetry website.
- Cleaned the data and carried out n-gram and frequency-count analysis and sorted them.
- Tokenized and Normalized the data and performed various NLP tasks e.g. stop words removal etc.
- Visualized the data with Word-clouds, Scatterplots, Bar charts, Pie plots and Heatmaps

4. Chatbot using NLP: -

Dec 2019 - March 2020

- Designed, built an IPython notebook on Cornell movie dataset using a Luong Attention GRU model in PyTorch.
- Pre-Processed the dataset and trained it on a GRU model that uses Attention which focusses on current word.
- Applied *Greedy Search* to predict the next word in the output sentence.

5. Realtime Text Transcription:

Sept 2019 - Dec 2019

- Designed and developed a text transcription tool for preparing PowerPoint, with the help of the **OCR** model that facilitates users to create a PowerPoint quickly by just taking pictures of coded text images.
- The accuracy achieved was 70% using VGG-19 Convolutional Neural Network (CNN) in python.
- Trained and compared our model with Tesseract (Open Source OCR)

6. Social Media Sentiment Analysis:

- Mar 2019 May 2019
- Designed & Built python script to perform **analysis** on the live **Twitter feed** using **Pandas**. The tweets can be segregated as positive, negative & neutral feed.
- Used Apache Flume for data ingestion & Hive as query interface to query out data from HDFS

7. Pet Store Website:

Jan 2019 - May 2019

Tech Stack: HTML, CSS, React.js, Node.js, Express.js, SQL, Php

- Designed, developed and deployed a Php based Pet Store Website where users can register and schedule appointments at the Pet store.
- Migrated the entire php codebase to JavaScript MERN stack with MVC framework.

8. Blog Website:

Oct 2018 - Dec 2018

Tech Stack: React Native, JavaScript, Node.js, Express.js MongoDB, HTML, CSS

- Created a simple but efficient Blog posting website with date sorted blogs using React Native.
- The Website has a summary of the list of blogs on the Home page and expands a blog on clicking it.

9. Max Connect 4 Game Algorithm:

Oct 2018 - Dec 2018

- Developed and implemented a Connect 4 board game using Python and Min-Max.
- The algorithm predicts the next moves needed for the computer to win the game.
- Added **alpha-beta pruning** and variable depth to boost the performance.

Technical Skills

- Languages & Libraries: Python, Javascript, TensorFlow, sklearn, Pandas, Numpy, nltk, seaborn, HTML, CSS, GraphQL, SQL, NoSQL-Mongo DB
- Certificates: Deep learning Specialization (Coursera), Complete Web Developer (Udemy), DNN in PyTorch (IBM)
- **Databases:** MySQL, Firebase
- Cloud and Framework: AWS-EC2, AWS S3, Google Cloud Platform, Spark, Hadoop, React.js, Node.js, Flask, Express.js, REST API

Education

The University of Texas At Arlington - Master's in Computer Science (GPA of 3.83)

Aug 2018 - May 2020

Majoring in Intelligent Systems & Databases, Coursework - Data Structures and Algorithms, Machine Learning, Neural networks, Cloud Computing, Data Mining, Software Testing

University of Mumbai - Bachelor's in computer engineering

Aug 2012 - June 2016