

Akshat Dinesh Barbhaya

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EDUCATION:

University of Southern California, Los Angeles, CA

August 2018 - May 2020

Master of Science, Computer Science

GPA: 3.1 / 4

Relevant Courses: Algorithms, Web Technologies, Database Systems, Augmented and Virtual Reality

Dwarkadas J. Sanghvi College of Engineering, University of Mumbai, India

August 2014 - June 2018

Bachelor of Engineering, Computer Engineering

GPA: 8.80 / 10

TECHNICAL SKILLS:

- **Languages:** Python, Java, C, C++
- **Database and Web Technologies:** MySQL, Oracle, Amazon Redshift, NoSQL, SQL, PL/SQL, HTML5, CSS3, Bootstrap, JavaScript, AJAX, jQuery, Node.js, PHP
- **Tools:** Eclipse, MATLAB, OpenCV, Git, AWS, GCP, VirtualBox, Visual Studio

WORK EXPERIENCE:

Software Engineering Intern at Ikioo Technologies, Inc.

June 2019 - August 2019

- Responsible for building a medical chatbot to cater patients with diagnosis based on symptoms using Chatterbot engine
- Created a database by processing symptoms and organs affected by it and linking it to corresponding diagnosis
- Performed entity recognition of symptoms from input and checked them in custom database for diagnosis prediction. Added functionality for making an appointment with the doctor after viewing the preliminary diagnosis

Software Engineering Intern at Herolabs Infotech Pvt. Ltd. (SuperFan.ai)

June 2017 - July 2017

- Improved test accuracy of 87.5% by performing classification of brand logo images using TensorFlow
- Retrained Inception v3 model to learn new classes of images using Transfer learning
- Achieved alphanumeric character extraction from Credit and Debit card images using Optical character recognition Tesseract-OCR and different pre-processing and noise reduction techniques on images to optimize results of characters on it
- Applied Support Vector Regression to predict stock prices on a future date from existing stock price dataset

PROJECTS:

Movie Genre Classification using Poster image (Python, Spyder IDE, Bootstrap, JavaScript, PHP, SQL)

- Collaborated with a team of 3 to analyze and classify movie posters into genres with Neural Bag-of-Words model
- Performed scraping of data and performed cleaning to detect inaccurate records to form a dataset for next step
- Configured feature extraction and clustered its descriptors into a bag of features through k-means clustering
- Developed final step of feeding Bag-of-Words to trained Neural Network to obtain genre of the poster

Geospatial Databases

- Computed k nearest neighbors and convex hull of a location using PostgreSQL and PostGIS
- Visualized the results on Google Earth using Keyhole Markup Language (KML)

Scraping Youtube videos and videolectures.net through BS4

- Scraped 1100 youtube features and extracting features like url, description using GCP API Youtube Data API V3
- Extracted entity information from youtube video description using Open Calais API
- Performed entity linking of person and organization to the associated entity in DBLP and DBpedia

Time-It (HTML5, CSS3, Bootstrap, JavaScript, AJAX, PHP, SQL)

- Created a platform to set user tasks and reminders and to notify it using email and text message
- Added an expense manager for users to keep a track of monthly expenses

Moodle Learning (Amazon Web Services, Linux)

- Deployed and configured Moodle on Ubuntu server using AWS instance to create a personalized learning environment
- Added functionalities for Admin to modify resources or settings for front page, adding courses and managing files

AWARDS & CERTIFICATION:

- Machine Learning by Stanford University June 2017
- Awarded as "Intern of the Year" at SuperFan for delivering high performance August 2017
- Mentored the course ACAD: 276 (Programming in PHP and SQL for Web Development) at USC October 2018