V. BHARATHAN MUDALIAR

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EDUCATION:

- B.E. in Computer Science (2016-2020) from Maharaja Sayajirao University, Baroda, Gujarat, India.
- H.S.C. from CBSE board with 93.8%
- S.S.C. from CBSE board with 9.4 CGPA

PROFESSIONAL INTERESTS: My professional interests include Deep Learning and Web Development.

TECHNICAL SKILLS:

- Deep Learning Specialization from Stanford (Coursera - Online) with 100%
- Python For Everybody Specialization from University of Michigan (Coursera - Online) with 100%
- Graph Search, Shortest Paths and Data Structures from Stanford (Coursera - Online) with 100%
- Divide and Conquer, Sorting and Searching and Randomized Algorithms Stanford (Coursera - Online) with 100%
- Introduction to Computational Thinking and Data Science from MITx (edx – Online) with 95%
- Introduction to Computer Science and Programming Using Python from MITx (edx – Online) with 95%
- Introduction to Java Programming from HKUSTx (edx – Online) with 88%
- Introduction to Mobile Application Development using Android from HKUSTx (edx – Online) with 94%

COMPUTER SKILLS:

- Programming Languages Known: Python, C++, JavaScript, Java, HTML5, CSS and Octave.
- Scripting Language: Bash.
- Operating System: Windows.
- Development Environment: Liclipse, Jupyter Notebooks, Code Blocks, etc.

POSITIONS OF RESPONSIBILITY / EXTRA CURRICULAR ACTIVITY:

- Part of Organising team of ***FOOTPRINTS*** (National Level Technical Event):
  As an organizing team member my main roles included propagation of the event, bringing in local sponsorships, design and execution of the technical events related to computer science field.

PROJECTS:

- **Profile Matching:**
  This is a machine learning and natural language processing-based project. Here we attempted to make a system that would suggest you friends/mentors based on your interests and skills in general. We used the normal practices such as tokenization, lemmatization, removing stop words and punctuations in the pre-processing stage. Then we used the Microsoft Text Analytics API to get the key phrases from each description. We then used Latent Dirichlet Allocation as a clustering algorithm to group individuals into different groups and then suggest them friends/mentors based on that.

- **Skin Cancer Detection:**
  This is a Computer Vision-based project, where we are attempting to detect skin cancer using the images of the skin. We used the pretrained MobileNet model and fine tuned the last 14 layers on our dataset. We achieved over 99% accuracy on both the training and the test data.

HACKATHON:

- **Voice Chess:**
  Inclusive Hackathon Jan 2019
  This is an accessible version of chess. All the moves in the game can be controlled by either voice or text input. For the voice input we used the Google Cloud Speech to Text API and then passed the transcriptions to Microsoft Luis API for extracting the intent and we used that to make the actual move. We also plan to continue the project further and make it into a full fledge game.

Volunteer Experience:

- **Teaching Assistant with Vision-Aid**
  I have been a TA with Vision-Aid for 3 semesters now in their Python course for Visually Impaired students. My main roles have been:
  - To resolve the doubts the students may have.
  - To help and encourage them to take more MOOCs on platforms like Coursera and Edx.

HOBBIES / INTEREST:

- I am passionate about cubing wherein I can solve cubes and cuboids of all sizes like Megamnix, Master Morphix and Pyramnix to name a few. I love to playing the synthesiser in my leisure time and enjoy skating too.