Nihal Nihalani

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EDUCATION

California State University, San Marcos, United States **Expected: Aug 2019 - May 2021**
Master of Science (MS) in Computer Science **GPA:3.67/4**
Relevant Courses: Analysis of Algorithms, Artificial Intelligence, Deep Learning, Data Mining, Design Patterns

Shri Dharmasthala Manjunatheshwara College of Engineering and Technology, Dharwad, India **Aug 2014 - Jun 2018**
Bachelor of Engineering (BE) in Computer Science
Relevant Courses: Internet of Things, Web Technologies, Computer Graphics

PROFESSIONAL EXPERIENCE

California State University-San Marcos, San Marcos, United States **May 2020 - Aug 2020**
Summer Research Intern

- Developed a Convolution Neural Network to detect covid19 pneumonia using frontal chest x-ray scan images.
- Designed the model using 8,700 images frontal CXR, Normal (1200 images), Pneumonia (5300 images), and COVID Pneumonia (1200 images).
- The model achieved the validation accuracy of 95.84% trained over 100 epochs to achieve this accuracy.

Beginup Private limited, Hubbali, India (formerly known as BoredBees) **Dec 2017 - Feb 2018**
Software Engineering Intern

- Built and led a team of 5 software engineering interns and developed Android Apps during the internship.
- Researched and developed android apps Code baba and Gre2k17. Launched these Android apps with a 4.7/5 star rating in the Google Play store with combined downloads of over 10,000+.

TECHNICAL SKILL

- **Programming Languages:** Python, Java, C, JavaScript, C#, Prolog
- **Data Science Libraries:** Tensorflow, Pytorch, Keras, Scikit-learn, Numpy
- **Web and Database Technologies:** HTML, CSS, SQL, Bootstrap, PHP, Git, GitHub.
- **Cloud Base Technology:** Google Cloud, Firebase, Amazon AWS.
- **Platform:** Windows, Linux, Virtual Box, Mac OS.

PROJECTS

Smart Garbage Collection - CNN, Python, IOT github.com/nihalnihalani/Smart-Garbage-Collection

- Built a Robot based on Rocker Bogie design for all-terrain use, with a 3D printed arm to pick non-recyclable waste with the help of CNN for segregation.
- Image processing and automation of the robot were done over the Raspberry Pi board included in the robot design.
- Funded by the Government of India, funds approximating to $4,000. This Project was demonstrated at multiple forums and gained a lot of recognition for its design and innovation.

RoboDoc - NLP,CNN,Javascript github.com/nihalnihalani/RoboDoc

- A Facebook messenger bot developed using Wit.ai for the Facebook AI hackathon, where people could get their symptoms analyzed using NLP. It classifies a combination of 70 common symptoms into 21 different diseases.
- Also incorporated image classification for the analysis of diseases using Chest X-ray for COVID detection and Breast mammograms for Breast Cancer detection

Timeless AI - NLP, Machine Learning, Python, ReactJs github.com/nihalnihalani/Timeless-AI

- Designed a Web-app for hassle-free navigation through video and document analysis using NLP.
- Developed various features such as navigation through youtube videos using key phrases, summarizing youtube videos and zoom lectures, quiz generation for a youtube video, and summarization of legal documents,s and highlighting the important sentences.

GamesHub - Java github.com/nihalnihalani/GameHub

- The final project for the Design Patterns course at California State University-San Marcos. A multi-game platform for the user to choose between five different Java games with GUI built using swing
- Incorporated Object Pool, Snapshot, Singleton, Builder, and State Design Pattern to make the implementation and maintenance of the system easier

AWARDS AND CERTIFICATES

- Google certified TensorFlow Developer. **(Certificate ID:24952450)**
- Second Prize Winner at Facebook AI Hackathon.
- Second Prize Winner at HackCOVID2.
- Winner for 2020 Facebook Developer Circles Community Challenge Best Regional - English Tutorial for Beginners.