RUTVA KRISHNAKANT PATEL

B.Tech - Information Technology
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KEY EXPERTISE / SKILLS

Machine Learning · Data Analytics · Object-Oriented Programming · C · Python · CPP · Android Studio · DBMS · Deep Learning

EDUCATION

Nirma University   2016 - 2020
B.Tech - Information Technology | CGPA: **7.19 / 10.00**

12th | GSEB | Percentage: **81.85 / 100.00**   2016

10th | GSEB | Percentage: **86.83 / 100.00**   2014

INTERNSHIPS

IIT Gandhinagar   May 21, 2018 - July 14, 2018

Key Skills: DBMS   SQL   Database Testing   Unit Testing

I created unit test cases of various processes involving workflow analysis for the IMS (Information Management System) at IIT-Gn. Debbuged various financial wallet related processes before it impacted the students using it.

Silverwing Technologies PVT LTD   Aug. 1, 2017 - Aug. 15, 2017

Key Skills: HTML   CSS   Bootstrap   Javascript

This two week training was my first foray into Web Devlopment. I used a personal profile template and used my newly learnt skills to personalize it. Finally, I deployed my website onto the company servers using FTP client- Filezilla

PROJECTS

On going Project- Self Learning Car (Evolutionary Machine Learning Model) in virtual environment   Aug. 1, 2019 - Aug. 30, 2019
Mentor: Prof Preksha Pareek | **Team Size:** 2

Key Skills: Machine Learning   p5.js   Deep Learning

This project deals with the simulation results of an autonomous car learning to drive in a simplified environment containing only lane markings and static obstacles. Learning is performed using the Deep Q Network.

Automatic detection in dysarthric speech using deep belief networks   June 1, 2019 - July 30, 2019
Team Size: 2

Key Skills: Machine Learning   Deep Learning

Dysarthria is a neural disorder which causes slurred speech. We have achieved at an accuracy of 98% in detecting if the patient is suffering through the disorder using TORGO dataset. We reduced the training time to apprx 10 mins after applying various preprocessing techniques.

Text Summarize & keyword extraction   Feb. 1, 2019 - May 31, 2019
Mentor: Prof Meenaxi Tank | **Team Size:** 1

Key Skills: Machine Learning   Android Studio   API   Python

Extractive Text Summarization integrating into android application using API to generate a summary of an article in 5-6 lines and extract information like author, keywords alongwith. Use of various data cleaning and text pre-processing methods, and text rank algorithm.

Voice Activity Detection   Jan. 10, 2018 - April 1, 2019
Mentor: Prof Sapan H Mankad | **Team Size:** 2

Key Skills: Python   Machine Learning

Statistical-based noise removal method is applied in order to separate signal from stationary noise using various features which is further extended as speaker diarization system.

Data of Waste water from water Retaining Structures (SIH 2019)   Feb. 1, 2019 - March 3, 2019
Mentor: Prof Ankit Thakkar | **Team Size:** 6

Key Skills: Android Development   chart.js   Node.js   Web Development   Databases

Grand Finalist of Smart India Hackathon, by MHRD, Govt of India (2019) where the finals were held in Chennai where only 4 teams were selected from 100+ under the project defination.

Indoor Air Quality measurement system (iQuality)   Sept. 1, 2018 - Nov. 30, 2018
Mentor: Prof Sapan H Mankad | **Team Size:** 2

Key Skills: Arduino UNO   C   Android Studio   PhpMyAdmin   Databases

An indoor Air Quality Monitoring System for detecting the levels of carbondioxide which also raises an alarm when the measure is above permissible limits. Arduino and android application is used.

ACHIEVEMENTS

- Grand Finalist of Smart India Hackathon, by MHRD, Govt of India (2019): Team member of team Queue Overflow, which qualified for Smart India Hackathon 2019 finals held at Chennai under problem defination by Ministry of Water Resources, Govt of India.
- Sugar Free Cylothon: rewarded for finishing in top 10 for 50 kms (open) cyclothon with a race completion time of 01:47:22 for two consecutive years 2016 and 2017.

ASSESSMENTS / CERTIFICATIONS

Machine Learning by Andrew NG

Python for Data Science

Key Skills: Machine Learning   Python

Fundamentals of Deep Learning for Computer Vision

Key Skills: Deep Learning

SEMINARS / TRAININGS / WORKSHOPS

Foundation Programme offered by Infosys under CampusConnect   May 20, 2019 - June 30, 2019
Institute Name: Institute of Technology - Nirma University

Key Skills: Python   Object-Oriented Programming   Data Structures   SQL   Database   Algorithms

Google Adsense and Adwords   Oct. 15, 2016 - Oct. 15, 2016
Institute Name: Nirma University

Key Skills: Google AdWords   Adsense

conducted by Computer Society of India

CO-CURRICULAR ACTIVITIES

- General Secretary of Infocrats- This is the official IT club of Nirma University. Various technical events and seminars were organized under Infocrats
- Executive Head at CodeAdda Club- This club organizes various coding competitions and encourage students for competitve coding.
- Event Coordinator- organized various tecnical events at ISTE's student chapter at Nirma University

EXTRA CURRICULAR ACTIVITIES

- First rank in 800 m and 1200 m running in inter institute sports & games competition- 2017, 2018
- District level Swimmer- 2013

WEB LINKS

- LinkedIn - https://www.linkedin.com/in/rutva-patel-444437141/
- Other - https://www.hackerrank.com/rutvakpatel981

PERSONAL DETAILS

Gender: Female
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