Rohan Desai

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Education

- **Nirma University** — Gujarat , India
  Bachelor of Technology in Computer Engineering — *July 2016 - May 2020*
  Courses: Operating Systems, Analysis Of Algorithms, Data Mining, Probability and Statistics, Network Security , Data Structures, Web Design, LAMP Technologies
- **Shree Swaminarayan Gurukul School** — Gujarat, India
  Completed HSC (10+2) — *June 2012 - May 2014*
- **St. Mary's High School** — Gujarat, India
  Completed SSC — *May 2012*

Skills Summary

- **Languages**: C, Python
- **Web Technologies**: HTML, CSS, Javascript, PHP , Flask
- **Databases**: SQL
- **Tools**: Weka , Wordpress

Publications

- **Accelerating Unsupervised SAR Polarimetric Image Segmentation by Parallel Wishart Classifier**
  Shivam N Patel , Rohan Desai , Prof Pooja Shah
  Submitted to the GPU Technology Conference (GTC) , 2020

Industry Experience

- **Western Railways , Ahmedabad Division** — Gujarat , India
  August 2019 - December 2019
  - Working on Railway database organisation for ease of access using Google App Scripts
- **SourcePro Infotech Pvt. Ltd.** — Gujarat , India
  May 2019 - July 2019
  - Designed a website for marketing services using Wordpress
  - Integrated live chat feature for customer support
  - Syndicated blogs to the website for reference

Academic Projects

- **Understanding Clouds from Satellite Images** — Deep Learning :
  - Performing Instance Segmentation upon images by finding the convex hull using Jarvis's March algorithm
- **Extending mpmath library for Number Theory** — Computational Number Theory :
  - Implementing mpmath's arithmetic precision functionality for various Number Theory results
  - Inferring by visualization of Number Theory Conjectures
- **Exploring 2D terrain using Reinforcement Learning** — Machine Learning :
  - Generated a maze using recursive backtracking algorithm and tkinter Python package
  - Generated a video of the learning process that takes maze image as input
- **Investment Management System** — Frontend :
  - Designed pages of website using HTML, CSS
  - Used a Javascript library Turn.js to implement a ledger
  - Implemented database connections and functional modules using PHP

- **Cryptocurrency Explorer** — Frontend :
  - Created a web application in Python using Django web framework
  - Used Form class and json to create a frontend simulating a blockchain
- **Optical Character Recognition** — Image Processing:
  - Implemented the Knuth-Morris-Pratt Algorithm for string matching in Java
  - Used Tesseract library to convert the given images into text
  - Tested for duplicate images and images with various content, for instance, a Wikipedia web page