

Dhruti Patel, Undergraduate Student

Anand, India, +91 7016451148, dhrutipatel0111@gmail.com

Date of birth 01/11/2000

LINKS [Portfolio](#), [GitHub](#), [LinkedIn](#), [Medium](#)

EDUCATION

Jul 2018 — Present **B. Tech Computer Science and Engineering, Charotar University of Science and Technology** Anand, Gujarat
CGPA: 9.18/10 (As of 6th Sem)

EXPERIENCE

Jun 2021 — Jul 2021 **Software Developer Intern, Feature IT LLC** Austin, TX

- Worked closely with the team to build a cross-platform CAR RENTAL application for Mobile through Flutter and a Website application.

Jun 2021 — Jul 2021 **Intern, Gurugram Police Cyber Security Internship 2021**

- At this internship got the opportunity to learn about many things about Cyber Security like it's tools, different types of attacks, etc.

Apr 2020 — Jul 2020 **Software Developer Intern, ZipBooks Software Solutions Pvt. Ltd.** Ahmedabad

- Worked closely with the team of 5 developers to build a Web application for capturing footsteps of the customer along with predicting gender, age, and sentiments of the customer and showing the graphical data on Website.

ROLES AND RESPONSIBILITIES

Feb 2020 — Jan 2021 **IEEE Student Branch DEPSTAR - Executive and Program Committee**

- As a part of these committees worked closely with publicity committee, etc. to plan and execute events, hackathons and webinars.

Sep 2020 — Present **Handmadely - Co-Fouder**

- It is my small business where I sell Handmade Crafts.

PROJECTS

HCR – Hindi Character Recognition

- It is a system that transcribes Hindi Handwritten Character into digital text and displays the output on the Web application and trained a Hindi Character Recognition model using CNN algorithm.
- Making own Hindi Vowel Dataset and training it to get proper prediction. (Ongoing)

DeepFake Detection

- The main purpose of this project was to make a Web application using Deep Learning (ResNext, LSTM), Flask and ReactJs (Backend, Frontend) where you can predict whether a video is FAKE or REAL along with the confidence ratio.

Diagonisticc - COVID-19, Normal and Pneumonia Detection

- A Web application that checks whether a Chest X-ray is detected with Covid-19, Normal and Pneumonia, trained a CNN model and integrated with the front-end UI using Flask.

BreasTest - Breast Cancer Detection

- Trained the models using logistic regression, random forest and artificial neural network algorithms.
- Randomized search to find the best parameters and trained the final model with logistic regression algorithm.

Chater using NLP

- A ChatBot application using Natural Language Processing.
- After training the model, at the end a bot will provide response according to user's query.

Face Log – Know Your Customer – Internship Project

- Worked on a Face Recognition module using OpenCV Python that extracts the detected face from frames using face landmarks, implemented it using Haarcascades which is a Machine Learning - based approach and predicts the age, gender, and sentiment of the customer at the same time.

CaRent - Car Rental Application – Internship Project

- As a back-end Developer made modules for CAR RENTAL application like login authentication API, car booking API, car rental API, etc. using Django and REST framework.

RESERACH PAPER PUBLICATIONS

DeepFake Creation and Detection using LSTM, ResNext

Dhruti Patel, et al. ***“DeepFake Creation and Detection using LSTM, ResNext”*** presented paper at 5th International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI 2021) – (Paper under process of being published in Springer)

Face Mask Recognition Using MobileNetV2

Vatsal Patel, Dhruti Patel, ***“Face Mask Recognition Using MobileNetV2”***, International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN : 2456-3307, Volume 7 Issue 5, pp. 35-42, September- October 2021. Available at doi : <https://doi.org/10.32628/CSEIT1217519>

Cryptographic Techniques on Network Security

D. Patel, D. Patel, V. Patel, and A. Ganatra, ***“Cryptographic Techniques on Network Security”***, *IJRESM*, vol. 4, no. 11, pp. 144–149, Nov. 2021. ([Click here to view the paper](#))

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, C+
- **Front End Technologies:** HTML, CSS, JavaScript, Bootstrap
- **Back End Technologies:** Flask, Django
- **Tools:** Hadoop, Oracle VM Virtual Box, MS Excel, MS Word, MS PowerPoint, Visual Studio Code, Eclipse, R Studio, Netbeans, Anaconda Navigator, PyCharm, Xcode, Postman, Orange3, Adobe XD
- **Key Skills:** Machine Learning, Data Science, Front-End Development, Software Development, UI/UX Designing, Teamwork

COURSES AND WORKSHOPS

- Data Science Fundamentals by Corporate Finance Institute (CFI) - Course
- Python For Data Science by IBM from cognitiveclass.ai - Course
- Machine Learning with Python by IBM from cognitiveclass.ai - Course
- Frontier of Deep Learning Applications for the Future - Workshop
- Creating and Deploying IBM Watson Assistant - Workshop
- A Walk through AR-VR - Workshop

ACHIEVEMENTS

Young's Women Achiever Awards 2020

- Got awarded under Udyamita award category for Entrepreneurship by Devang Patel Institute of Advance Technology and Research for running my small business known as Handmadely.

VOLUNTEERING

- Smart Gujarat for New India Hackathon 2019-20, *Volunteer*
- Cognizance Techfest -2019 (University Fest), *Volunteer*