# Rajat Patel

patelrajat2000@gmail.com | contact no.+91 8735045097 | LinkedIn://Rajat Patel

## EDUCATION

**INSTITUTE OF TECHNOLOGY**

**NIRMA UNIVERSITY**

B.TECH IN COMPUTER SCIENCE 2018 - 2022
Ahmedabad, CGPA: 8.675

**APS INTERNATIONAL SCHOOL**

12TH | CBSE
2016 - 2018 | Ahmedabad
Percentage: 90.0
JEE Advanced: AIR 12580

## LINKS

HackerRank:// patelrajat2000
LeetCode:// Rajat_Patel
CodeChef:// patelrajat2000
Github:// Rajat-S-Patel

## COURSEWORK

COMPUTER SCIENCE AND ENGINEERING
Data Structures and Algorithms
DBMS
Operating System
Object Oriented Programming
Computer Networks
Software Engineering
Machine Learning / Deep Learning

## SKILLS

**PROGRAMMING**

C ++ • Python • C • Java
HTML • CSS • SQL
Spring MVC • Spring core (basic)
Machine Learning • Deep Learning
Competitive Programming

## VOLUNTEER

• Worked with Jyot Education foundation, Ahmedabad.

• We had raised funds for pediatric patients.

## HOBBIES

• Listening Music • Playing Keyboard ( I love Music)

## LANGUAGES

• English • Gujarati • Hindi

## PROJECTS

**PLANT PATHOLOGY 2021** (GitHub Link) [2021]
- Developed a Deep learning model which can identify the category of foliar diseases in apple trees.
- Fine-Tuned EfficientNetB7 on the training dataset and achieved a Mean-F1 Score of 0.835 on holdout data.
- Trained the model on TPU.
- Deployed the model using Spring backend with DJL (Deep java library) with web user interface.

**PNEUMONIA CLASSIFICATION FROM XRAY IMAGES** [2020]
- Used the Linear SVM classifier on image features extracted using ResNet50 to classify Pneumonia and Non Pneumonia patients based on chest X-Ray.
- Fine-tuned ResNet50 to detect Pneumonia patients from chest X-Ray and achieved accuracy of 89% on holdout data.

**SELLEX** (GitHub Link) [2020]
- An E-Commerce type web application. Developed using PHP-backend and SQL database. Frontend is designed using HTML/CSS and Javascript/ Jquery.

**IMAGE-LENS** (GitHub Link) [2020]
- A GUI application, developed using PyQt5, to search similar images from the set of images for the given query image. Transfer learning is used to find the similar images based on the cosine similarity.

## ACHIEVEMENTS

- 6 stars in Problem Solving and 5 stars in C++ and Python on HackerRank.
- Achieved Rank 4067/19000 in Google Kickstart Round A 2021.
- Achieved Rank 2804/19000 in Google Codejam Round1A 2021.

## CERTIFICATIONS

- "Algorithmic Toolbox" course (by University of California San Diego, on Coursera). (Link)
- "Spring Framework 5: Beginner to Guru" On Udemy (Link)
- "Scientific Computing and Python for Data Science" with honors (by WorldQuant University). (Link)