

# Shubhamkumar Pandey

shubhampandey28.github.io  
b18194@students.iitmandi.ac.in | +91-9816790074

## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY, MANDI

2018 - 2022 | Mandi, Himachal Pradesh  
BACHELOR'S IN TECHNOLOGY  
MAJOR : ELECTRICAL ENGINEERING  
MINOR : COMPUTER SCIENCE AND ENGINEERING

## LINKS

LinkedIn:// shubhampandey28  
Github:// ShubhamPandey28  
Kaggle:// shubhampandey27  
Gitlab:// ShubhamPandey28

## COURSEWORK

### IIT MANDI

Linear Algebra (IC 111)  
Calculus (IC 110)  
Introduction to Communicating Distributed Processes (CS 310)  
Data Structures and Algorithms (CS 202)  
Algorithm Design and Analysis (CS403)  
Pattern Recognition (CS 669)  
Information Database Systems (CS 309)  
Systems Practicum (CS 307)  
Machine Learning (IC 272)

### OTHERS

Cloud computing basics (Coursera)  
Keras DCGAN (Coursera)  
Linux kernel (LFD103 Linux Foundation)

## SKILLS

### PROGRAMMING LANGUAGES

Python • C • C++ • Golang • JavaScript

### TOOLS

fish • bash • git • VSCode

### TECHNOLOGIES

Linux • MySQL • NodeJS • Flask • Tensorflow

## EXPERIENCE

### SOFTWARE ENGINEER INTERN June 2021- August 2021

Adansons Inc. | Sendai, Miyagi, Japan

- Analysed reference AI system designed by Adansons by using different datasets.
- Developed a method to estimate the mixing matrix using AI-R.
- Proposed a metric to measure the closeness of the signals.

### SDE INTERN March 2021- May 2021

Parabooking | Himachal Pradesh, India

- Migrated the database from Digital ocean to Hasura cloud.
- Developed a GraphQL API for the server.
- Worked on developing a PWA using NuxtJS.

## CO-CURRICULUM

### TEACHING ASSISTANT August 2021- Dec 2021

Indian Institute of Technology Mandi

Appointed as a teaching assistant of the Course CS514(Data structures and Algorithms II) offered in semester Aug - Dec 2021 at IIT Mandi under Assistant Professor Dr. Rameshwar Pratap Singh.

## PROJECTS

### TRANSPORT MANAGEMENT SYSTEM server-link gui-link

Developed a transport handling system for a transport company.  
Deployed the server as REST API using flask and MySQL database.

### GENERATIVE-MODELS link

Implementation of deep generative algorithms like DCGAN, CycleGAN and Adversarial-FGSM using tensorflow. The CycleGAN is trained using tensorflow training strategy over TPU using tfrecord data.

### SUDOKU CHEATER link

Solving realtime sudoku from sudoku image shown via webcam. It extracts the ROI from the image and using deep learning extracts the digits and then solves it by algorithm x.

### MULTIPLAYER Pictionary GAME

A PyQt+pygame desktop app where multiple users can create and connect a gaming room in which one of the users draw a picture which is simultaneously visible by the other users for guessing in a room. There is a chatting window for each room separately.

## ACHIEVEMENTS

2020	176 <sup>th</sup> /720	International Data Science Olympiad 2020, IDAO
2020	536 <sup>th</sup> /3497	2019 Data Science Bowl, kaggle
2019	4th globally	Softbank forex Algorithm Challenge
2019	bronze medal	Datascience challenge, 8th Inter-IIT Tech Meet
2018	top 0.5% in India	JEE 2018

## EXTRA CURRICULUM

### NATIONAL CADET CORP (ARMY WING) 2013 - 2015 | Gujarat

Rank : Cadet , unit '2 Guj Indep Coy NCC, Gandhinagar.