

Mitaali Nagpal

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EDUCATION

JIIT | NOIDA

July 2017 – July 2021

B.Tech in Computer Science

MILTON PUBLIC SCHOOL | AGRA

Aug 2015 – Aug 2017

Percentage: 90.0

ST. CONRAD'S INTER COLLEGE

| AGRA

Aug 2008 – Aug 2015

Percentage: 97.2

COURSEWORK

UNDERGRADUATE

Algorithms and Data Structures

Advanced Data Structures and Algorithms

Database Management Systems

Operating Systems

PROGRAMMING SKILLS

- C/C++
- Python
- MySQL
- Machine Learning
- Git/Github
- Linux
- Objects Oriented Programming

CERTIFICATIONS

- Algo++ (Coding Blocks)
- Problem Solving (Hackerrank)
- Discrete Mathematics (NPTEL)
- Joy of Computing with Python (NPTEL)

LINKS

- [linkedin.com/mitaali-nagpal](https://www.linkedin.com/company/mitaali-nagpal)
- github.com/Fairypanda
- [codechef.com/mitaali09](https://www.codechef.com/mitaali09)
- [hackerrank.com/mitaalinagpal09](https://www.hackerrank.com/mitaalinagpal09)
- [spoj.com/Fairypanda](https://www.spoj.com/Fairypanda)

INTERESTS

Competitive Programming

Creative Writing

Debating

Basketball

WORK EXPERIENCE

TEACHING ASSISTANT | CODING BLOCKS

May 2020 – July 2020

- Mentored students in Data Structures and Algorithms
- Cleared doubts related to problem solving questions and programming concepts

TECHNICAL CONTENT WRITER | CRYPTO-BUDS

May 2018 – July 2018

- Studied in depth the concept of Block-chain based products
- Wrote articles for Block-chain startups.

POSITIONS OF RESPONSIBILITY

TECHNICAL COORDINATOR | KNUTH, JIIT

Aug 2019 – Aug 2020

- Worked as a Problem Setter in Coding challenges
- Conducted workshops on Algorithms and Data Structures.

VOLUNTEER | IEEE STUDENT BRANCH, JIIT

Aug 2018 – Aug 2019

- Took workshops on C/C++ (Tech-blocks)
- Conducted Xenith, annual techno-cultural event of JIIT

PERSONAL PROJECTS

COVID TESTER | PYTHON, DEEP LEARNING

July 2020 – Aug 2020

- X-ray images of lungs were used, combining data from kaggle (Covid-19 negative, normal) and doctor's dataset (Covid-19 positive)
- Used Convolutional Neural Network layers to extract features from images and predicted positive or negative test result on that basis.
- the model used was Sequential, with binary classification and gave an accuracy of 96 percent

AUTO DETECTION OF ALGORITHMS | PYTHON, MACHINE LEARNING

Jan 2020 – May 2020

- Converted the C++ source codes obtained from Codeforces into XML files and then prepared a dataset of type csv, for easy extraction of tokens and answering queries
- Developed a python script which uses Random Forest Algorithm
- It predicts the Algorithms in the C++ source codes, with accuracy 87 percent.

IMAGE CAPTION GENERATOR | PYTHON, DEEP LEARNING

Aug 2019 – Dec 2019

- Pictures from Flickr8k dataset were used to train the model using RNN and LSTM.
- On providing the input as an image, the project predicted a suitable caption for it.

ACHEIVEMENTS

2019	top 5 percent in country	Python (NPTEL)
2019	1 st	Coding Competition, Algoflux, JIIT, sector 128
2018	2 nd	Robotics Competition, JIIT sector 62
2018	2 nd	JIIT Literary Seminar, JIIT sector 62
2015	2 nd	Agra ICSE Boards (97.2 percent)