

Parth Goel

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EDUCATION

MSCS, ML/AI, Rutgers University, New Brunswick, CGPA 4.0.

Sep 2021 - May 2023

B Tech, Computer Science, Manipal University, Jaipur, CGPA 8.55.

Jul 2017 - Apr 2021

TECHNICAL SKILLS

Programming: Python, C++, C, Java, R, TS | **DBMS:** MySQL, PostgreSQL | **App Dev:** XML, Java (Android), Node, React, Preact, Ojet | **API:** Flask | **OS:** MacOS, Windows, Linux | **Application Software:** JIRA, Photoshop, Spring Boot, GitHub

WORK EXPERIENCE

Oracle (Software Engineer Intern)

May 2022 - Aug 2022

- Interned as a Full Stack Developer in the Applications Development Team (OCI), working on the latest technologies; Ojet and Helidon to create a Generic Service App for the internal members of the organization.

Capgemini Technology Services India Limited (Senior Analyst Intern)

Jan 2021 - May 2021

- Interned as a Java Full Stack Node + React Developer to create a web app to track both mental and physical health of the users.
- The web app also enabled the users to schedule appointments with verified doctors.

Northeastern University, with Prof. Stavros Tripakis (Research Intern)

Mar 2020 - Aug 2020

- Found equivalence in Neural Nets using SMT solvers which achieved great results and opened a gateway for creating shallower Neural Nets saving both computation power and time.

IIT Kharagpur, with Prof. Sudip Misra (Research Intern)

Dec 2019 - Jan 2020

- Worked on 10+ major and minor projects on Algorithms, Image Processing and Computer Vision.

RESEARCH PUBLICATION

[Conversion of 2-D Images into Multi-view Images of Bone using Deep Learning](#)

Aug 2018 - Aug 2020

Computer Methods in Biomechanics & Biomedical Engineering: Imaging & Visualization Journal Volume 9, 2021 - Issue 1.

TECHNICAL PROJECTS

Sketch to Coloured Facial Images using CGANs (Computer Vision)

Mar 2022 - Apr 2022

- Implemented state of the art research papers like Pix2pix, Sketch2face and Cycle GANs that uses U-net architecture.
- Used the Pytorch library to train on datasets like FS2K and CUHK.

Navigation System for Visually Challenged People (Image Processing, Computer Vision)

Jan 2020 - Feb 2020

- Created an interactive and user-friendly navigation system for visually challenged people.
- Used pre-trained SSD 512 resnet50 v1 coco model for object detection and triangular similarity for distance calculation.

Face Rotation Using CGANs (Computer Vision, Deep Learning)

Sep 2019 - Oct 2019

- Designed a Conditional GANs algorithm in a team of 3, which generated images of all the profiles of a face when given any one profile image as input.
- The main idea behind this project was to help in criminal identification.

Siamese Neural Network Facial Recognition Implementation (Deep Learning)

Feb 2019 - Mar 2019

- Constructed the Siamese Neural Network for one-shot image recognition.
- Employed the Neural Network to design a facial recognition system.

Extracurricular Activities

Teaching Assistant at Rutgers University

Jan 2022 - May 2022

Worked as a TA for undergrad courses; Discrete Maths – 2, Operating Systems and Data Management for Data Science.

A-Z Guide on how to run your Python/Machine Learning code on Android

Oct 2019 - Nov 2019

Published a blog on Medium to serve as a guide for connecting Machine Learning models to Android which has over 3k views and around 300 claps.

Student Mentor, ACM Student Chapter MUJ

Aug 2018 - Aug 2019

Taught a course on python to 2 sections of 60 students each and mentored them on their projects.