

MANAV KHORASIYA

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🔗 ManavKhorasiya



EDUCATION

Sardar Vallabhbhai National Institute of Technology, Surat <i>Bachelor of Technology in Computer Engineering</i>	<i>Jul. 2018 - Current</i> 8.69 CGPA
Prakash Higher Secondary School <i>XII (Senior Secondary), Science</i>	<i>2017 - 2018</i> 91.60%
Prakash Higher Secondary School <i>X (Secondary)</i>	<i>2015 - 2016</i> 10.00 CGPA

EXPERIENCE

Mastercard <i>Software Development Engineer Intern</i>	<i>May 2021 - Jul. 2021</i>
<ul style="list-style-type: none">– Project Details: Developed a File Transfer System to be used by internal applications to handle the transfer of transactions, reports, and invoices. Performed Unit Testing on this application with 96% code coverage. Also worked on generation of logs in JSON format for few projects– Tech Stack: Spring Boot, Amazon S3, Maven, Apache Kafka, Jenkins, PCF (Pivotal Cloud Foundry)	
Simulas <i>Backend Developer Intern</i>	<i>Oct. 2020 - Feb. 2021</i>
<ul style="list-style-type: none">– Project Details: Developed the backend of a Hotel Management System including functionalities like reservation, payment portal integration, and different user privileges– Tech Stack: NodeJS, ExpressJS, MongoDB	
Firecamp <i>Web Developer Intern</i>	<i>May 2020 - Sep. 2020</i>
<ul style="list-style-type: none">– Project Details: Created an Echo Server for Firecamp app to test out its various features– Tech Stack: NodeJS, GraphQL, WebSocket	
Jetbro <i>Backend Developer Intern</i>	<i>Dec. 2019 - Jan. 2020</i>
<ul style="list-style-type: none">– Project Details: Created APIs, managed routing, and handled database for a fantasy stock market app, <i>nine30</i>– Tech Stack: NodeJS, ExpressJS, MongoDB	

PROJECTS

Gesture Interpreter for Specially Abled (G.I.S.A.)
<ul style="list-style-type: none">– Developed an interpreter for translating the languages of the specially abled people depicted by their hand gestures into human readable and audible formats– Utilised RGB, HSV, and YCrCb color spaces for skin segmentation and distance transform for skeletonization– Implemented <i>ResNet50</i> for 9 class recognition with a test accuracy of 98.93%– Tech Stack: Tensorflow, OpenCV, gTTS, Django
Corona and Pneumonia Testing Network (CAPTEN)
<ul style="list-style-type: none">– Formulated a utility system that recognises COVID-19 or Pneumonia based on chest X-ray images– Achieved test accuracy of 96.89% for 3 class classification using <i>DenseNet121</i> architecture– Used Grad-CAM to analyse effect of the disease by visualising patterns in X-ray images– Tech Stack: Tensorflow, OpenCV, Django
Tunes for Expression (TUNEX)
<ul style="list-style-type: none">– Designed a utility to recommend songs to the user based on his/her mood predicted using facial expressions– Used Haar Cascade Classifier for face identification and CNN model trained on <i>FER Dataset</i> for mood prediction– Integrated Spotify APIs for song recommendation– Tech Stack: Tensorflow, OpenCV, Django

Virtual Try-On Network (VIRTUON)

- Developed a system that can transfer garments across images of people with arbitrary body pose, shape, and clothing
- Implemented a 4-stage process involving segmentation using *Grapy-ML*, Pose Estimation using *Openpose* followed by warping through *GMM* and utilised *TOM* as generator network
- **Tech Stack:** Tensorflow, Pytorch, OpenCV

TECHNICAL SKILLS

Web Development: NodeJS, WebSocket, SpringBoot, GraphQL, Django, HTML, CSS

Languages: C++, Python, Javascript

Operating Systems: Linux, Windows

Technologies: Deep Learning, Computer Vision, OpenCV, Git, Docker, Jenkins, AmazonS3

Database: MongoDB, SQL

EXTRACURRICULAR ACTIVITIES

DRISHTI: A Revolutionary Concept (Technical Student Chapter), SVNIT, Surat *May 2019 - Present*
Treasurer & Team Mentor

- Held the position of Treasurer in the management committee of the club from July 2020 to July 2021 wherein the primary responsibilities include procurement of resources and managing the budget
- Worked on and mentored projects related to Computer Vision and Deep Learning
- Managed events organized by the club including technical workshops and competitions having a reach of 400+ students
- Made a static website for the club using HTML, CSS, and Bootstrap

ACHIEVEMENTS

Winner, Code for Good 2021
JPMC

Jun. 2021

- Code for Good is a Hackathon organized by JPMC, where different teams have to build solutions for various Social Good Organisations (SGOs)
- Developed the backend of a Web and Mobile application to be used by School Management Committee for SGO *Samarthya*

Technothon 2016 AIR 147
IIT Guwahati

2016

- Technothon is an International School Championship organised by IIT Guwahati involving mental aptitude and logic