

# DEVARSH PATEL

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## EDUCATION

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**Masters of Science**, Computer Science *Sep 2021 - May 2023 (Expected)*  
Northeastern University, Boston (Khoury College of Computer Science)  
Relevant Courses: Programming Design Paradigm, Data Base Management System  
**Bachelor of Engineering**, Computer Engineering *Aug 2017 - Jul 2021*  
Gujarat Technological University CPI: 9.38/10.0

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, JavaScript, C/C++, R, HTML5, CSS3.  
**Database:** MySQL, MongoDB, Oracle.  
**Tools and Technologies:** NodeJS, GIT, IntelliJ, Flask, VS Code, TensorFlow.  
**Domain:** Data Structure & Algorithm, Object Oriented Design, Test-driven Development, Machine Learning, Deep Learning, Data Science, Computer Vision  
**Libraries:** Scikit-Learn, Pandas, NumPy, OpenCV, Matplotlib.

## EXPERIENCE

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**Artificial Intelligence Internship**, Teksun Inc, Ahmedabad, India *Nov 2020 - Jan 2021*  

- Collaborated on developing various deep learning modules and optimizing the system for the project to create an Edge processing-based device for the health sector which keeps track of user's health data.
- Built a system named Hello AI, which uses technologies like deep learning and machine learning to predict their health parameters like oxygen level, heartbeat rate, and stress level.

**Software Developer Internship**, Riddhi Corporate Services Limited, Ahmedabad, India *Mar 2020 - Jun 2020*  

- Created a project on socket programming using NodeJS and databases like MongoDB, which provides the functionality to create chat rooms.
- Designed an interactive chat app using NodeJS that would be used for organizations' internal communication.
- Implemented the basic login authorization system using NodeJS to authorize the user trying to access the webpage.

**Data Science Internship**, Tuckers Solicitors, Ahmedabad, India *May 2019 - Jul 2019*  

- Executed the depth-sensing project, where the task assigned was to find the depth of the particular object with the help of triangulate distance and object detection.
- Presented the project to the client and helped them understand the technologies and their usefulness in their working domain.

## PROJECTS

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**Smart Glasses User Assistant Gadget** Jan 2021 – May 2021  

- Developed the glasses which can aid the visually impaired to perform their day-to-day task very easily.
- Compiled various modules like crosswalk detection, object detection, image captioning, facial recognition in one place.
- Integrated Raspberry PI to perform the edge processing, which gives the capabilities to use the device in real-time.

**Image Colorization** Aug 2020 – Oct 2020  

- Applied a Convolution Neural Network to colorize the old and distorted black and white image using U-net and GAN.
- Drafted the Graphical User Interface, which interacts with the user to take hints and generate the colorized images based on the given a hint.

**Object Tracking** Feb 2021 – April 2021  

- Administered a system that takes the video feeds as an input and tracks the object in the particular feed with the help of technologies like Kalman filter and object detection.
- Enhanced this system using deep sort, which can help the system to track multiple occurrences of the same set of objects.
- Used the swagger API to create a front end of the project which can provide an effective user interface.

**Restaurant aggregators app and ERP** May 2019 – July 2019  

- Created a single application that the restaurants can use to display orders from the different market places byusing JavaScript.
- Helped restaurants to manage in-house orders, inventory by creating a simple interface using HTML/CSS3 and generating analysis reports using data mining tool.

## PUBLICATIONS

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- [Exploiting the Capabilities of Blockchain and Machine Learning in Education.:](#) Jan 2021
- [Integrating Machine learning and Blockchain to develop a system to veto the forgeries and provide efficient results in education sector:](#) Jun 2021