

Devarsh Patel

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EDUCATION

Northeastern University (Khoury College of Computer Sciences) , Boston, MA	<i>May 2023</i>
Master of Science in Computer Science	GPA: 3.91/4.0
Relevant Coursework: Algorithms, DBMS, Programming Design Paradigm, NLP, Web Development	
Gujarat Technological University , Ahmedabad, India	<i>May 2021</i>
Bachelor of Engineering, Computer Engineering	CPI: 9.38/10
Relevant Courses: Python Programming, DBMS, Data Structures and Algorithms, Data Science, Web Technology	

SKILLS

Languages:	Python, Java, SQL, JavaScript, React, HTML, CSS, R, C/C++.
Tools and Technologies:	GIT, NodeJS, React, jQuery, Flask, Keras, TensorFlow, Redux, OpenCV, Bootstrap, NumPy, Pandas.
Database:	MySQL, MongoDB, Snowflake, Oracle.
Domain:	Data Structures & Algorithms, Object Oriented Design, Test Driven Development, Data Science, Machine Learning, Deep Learning, Computer Vision, Junit Testing, Full Stack Development.
Soft Skills:	Leadership, Management, Communication, Public Speaking, Content Writing.

EXPERIENCE

Graduate Teaching Assistant (DS2000: Programming With Python) , Northeastern University	<i>Jan 2022 - May 2022</i>
<ul style="list-style-type: none">Managed 250 students under Prof Laney Strange, and John Rachlin also created solutions and rubrics for the assignments, and organized the code walks to review the code for the students.Conducted office hours to solve the queries of the students and succeeded to increase the average score on the assignment by 30% and achieved 100% success ratio on the mid semester exam.	
Software Developer Internship , Riddhi Corporate Services Limited, Ahmedabad, India	<i>Mar 2020 - Jun 2020</i>
<ul style="list-style-type: none">Created a project on socket programming using NodeJS and databases like MongoDB which provides the functionality to create chat roomsDesigned 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.	
Artificial Intelligence Internship , Teksun Inc, Ahmedabad, India	<i>Nov 2020 - Jan 2021</i>
<ul style="list-style-type: none">Collaborated with Juber Gandharv and team on development of various deep learning modules and optimization of the system to create an Edge processing-based device for health sector which keeps the track of user's health data.Built a system named as Hello AI, which uses the technologies like deep learning, machine learning to give the user the prediction of their health parameters like heart beat rate with 94% accuracy.	
Data Science Internship , Tuckers Software PVT LTD, Ahmedabad, India	<i>May 2019 - Jul 2019</i>
<ul style="list-style-type: none">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 help them understand the usefulness of the project in their working domain.	

PROJECTS

Graphical Adventure Game	<i>Sep 2021 - Dec 2021</i>
Technologies Used: Java, MVC, Swing, Junit Testing, Various Design Patterns	
<ul style="list-style-type: none">Drafted the Graphical User Interface by using java swing which interacts with the user to take next game input and unfolds the maze base on the user input.Designed and developed a graphical adventure game where the maze is randomly generated using Kruskal's Algorithm.Implemented all the functionalities of the game using Object-Oriented Design concepts and MVC architecture in java.	
Smart Glasses User Assistant Gadget	<i>Jan 2021 - July 2021</i>
Technologies Used: Python, CNN, RNN, OpenCV, Tensorflow, Raspberry Pi, Deep Learning	
<ul style="list-style-type: none">Developed the glasses which can aid the visually impaired to perform their day-to-day task very easily.Optimized different modules using applications of parallel programming as well as by reducing the computational complexity to increase the frames per second processing of the system by at least 30% in order to achieve the goal of real time input video processing.Compiled various module like crosswalk detection, object detection, image captioning, facial recognition at one place.	
Object Tracking	<i>Feb 2021 - April 2021</i>
Technologies Used: Python, Computer Vision, Deep Sort, Kalman Filter, Keras, Imagenet	
<ul style="list-style-type: none">Administered a system which takes the video feeds as an input and tracks the object in the particular feed with the help of technologies like Kalman filter, object detection.Enhanced this system using deep sort which can help the system to track multiple occurrences of same set of objects.Used the swagger API to create a front end of the project which can provide an effective user interface.	

PUBLICATIONS

• Exploiting the Capabilities of Blockchain and Machine Learning in Education. (Springer)	Jan 2021
• Integrating Machine learning and Blockchain to develop a system to veto the forgeries and provide efficient result in education sector. (Springer)	Jun 2021