

# NISARG HITESH SHAH

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## EDUCATION

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**Rutgers University-New Brunswick, New Jersey**

**Expected May 2024**

M.S in Computer Science

*Relevant Coursework:* Intro to AI, Data Structure and Algorithm, Mathematical Foundation to Data Science, Machine Learning

**Dwarkadas J. Sanghvi College of Engineering, Mumbai, India**

**June 2022**

Completed Bachelor of Engineering in Electronics and Telecommunication

**(CGPA: 8.3/10)**

*Relevant Coursework:* Applied Mathematics, Structured Programming Language, Database Management System, Image Processing and Machine Vision, Data Compression and Encryption

## TECHNICAL SKILLS

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- Programming Languages: Python, C++, C, JavaScript, CSS, HTML, Node.JS, socket I/O
- Databases: MongoDB, MySQL, Hadoop
- Microcontroller: Arduino, Teensy, Raspberry Pi
- Software: MATLAB, Anaconda, Arduino IDE, Visual studios, Tableau, Adobe
- Certification: Data structures and Algorithms Specialization, Machine Learning, Introduction to Data Science
- Framework/Library: PyTorch, TensorFlow, React

## PROFESSIONAL EXPERIENCE

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**Finbits, Mumbai, India**

**July 2021 – October 2021**

*Frontend Developer*

- Improved website usability by fixing bugs and testing new features like pop-up chats and navigation bar to ensure they met user requirements
- Designed and developed the company website using Vanilla Javascript and React.js, **resulting in a 30% reduction in page load time and a 50% improvement in overall user experience.**
- Played a key role in implementing website modules and designing the user interface for mobile applications.

**Pixeldust Technologies Private Limited, Mumbai, India**

**April 2021 – June 2021**

*Software Developer*

- Employed Tableau to analyze and identify trends in software data, leading to the identification of key improvement areas and **a 20% increase in overall software efficiency**
- Debugged and modified vital software components, including the user interface, to improve user experience and resolve technical problems. **This resulted in a 25% increase in overall user satisfaction**
- Developed a data visualization tool using python, enabling the company to understand product performance better and identify growth opportunities.
- Aided in the process of designing UI for web applications using Adobe Photoshop

## ACADEMIC PROJECTS

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**DJS Arya | Skills Used: Javascript, Node.js, Socket I/O, MATLAB, and Arduino IDE**

- Worked as a coding junior and later was promoted to coding head
- **Played a crucial role in developing a graphical user interface to display real-time telemetry data sent from the electronic sensors.**
- Sensors present on canister satellite sent data via antenna wherein the GUI plotted sensory data, and 3D plotted satellite's locations using GPS sensor
- **Stood 13th all over the world** in the PDR (Preliminary design review) round, **secured 2nd rank** in the CDR (Critical design review) round, and **bagged overall 9th position** at the [CanSat Competition](#) organized by the American Astronautical Society and American Institute of Aeronautics and astronautics in 2020
- **Ranked 2nd in PDR (Preliminary design review) round and 2nd in CDR (Critical design review), securing overall 12th position** in 2021

**UAV Drone Surveillance using Thermal Imaging | Skills Used: OpenCV, Python, Arduino IDE**

- Constructed a drone with additional components of a GPS module, Temperature and pressure sensor, Gyroscope, and VR headset to display the live video feed
- Employed the fundamentals of thermal imaging to overcome the drawbacks of a standard camera
- Processed **Machine Learning models and Open CV algorithms on thermal video** feed using Python for better surveillance.
- **Secured 1st prize out of 60 teams participated in the DJ Strike competition** held by Dwarkadas J. Sanghvi College of engineering in 2021

**Movie Recommender System | Skills Used: Machine Learning, Python, TensorFlow**

- Built a movie recommender system to incorporate user personalization in all categories
- Implemented collaborative filtering and latent factor models using the preexisting dataset
- Combined the features to form a model to predict with accuracy the genre, and movie rating choice of the user

**E-Commerce website | Skills Used: Machine Learning, Javascript, Flutter, React**

- Built a **custom reverse image detection model** for online shopping of clothes and shoes
- Created the system to search the web and provide similar products and prices automatically
- Developed a website using a **Machine Learning model and website development technologies such as flutter and JS**