

# RUCHITKUMAR GAMIT



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Vadodara , Gujarat, India

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Constant learner and Enthusiast to work on new ideas and always passionate to help out the wide community by my tech./non-tech. skills.

## EDUCATION

### MSc in Nanotechnology (Material Science) MSU Baroda

08/2024 - Present

74.9%

Core Coursework

- Material Science
- Chemistry of Nanomaterials
- Synthesis of Nanomaterials
- Nanocharacterization
- Nanocomposites
- Physics of Nanomaterials
- Scientific Computing
- Nanobiotechnology
- Nanofabrication

### B.Tech(Computer Science & Engineering) Nirma University,Ahmedabad

07/2018 - 07/2022

CGPA: 6.44

Core Coursework

- Programming Lang. C/Java
- Big Data Analysis
- Cyber Security
- Digital Electronics
- Machine Learning (Python)
- Data Base Management Sys
- Internet of Things (IoT)
- Computer Architecture

### HSC

#### Gujarat Secondary and Higher Secondary Education Board

05/2018

65.23 %

### SSC

#### Gujarat Secondary and Higher Secondary Education Board

05/2016

91.16 %

## INTERNSHIP

### Research Intern

#### BINGHAMTON University, NewYork, USA

01/2022 - 06/2022

Remote

Achievements/Tasks

- Deep Learning (DL) based model to predict errors in 3D printing process
- Trained DL Model for medical Knee Joint Structure design
- Analyzed and predicated the all intermediate layers distortion pattern

### Intern

#### EdgeGate – Texas Instruments Embedded System,Bangalore

08/2020 - 09/2020

Achievements/Tasks

- Learned and developed some rapid Mobile Applications using MIT App Inventor. Introduced with Tiva Micro Controller (TMC). Configured the TMC for Bluetooth applications.
- Got Practical knowledge and experience related application and development of IoT based devices.

## KEY SKILLS

Research Analysis

Requirement Gathering

Coordination

Drafting

Critical Thinking

## PROJECTS

### Synthesis of Nanoparticles (01/2025 - Present)

- [Department of Applied Chemistry MSU Baroda](#)
- Synthesised Silver Nanoparticles
- Using Sol-Gel method Synthesized Magnetite (Fe<sub>3</sub>O<sub>4</sub>)
- Prepared Nano-assemblies using surfactant
- Uses programming like ML for analysis
- XRD , UV visible , DSC Characterization

### Advanced Electron Scattering Simulator (01/2025 - Present)

- Calculates different parameter for the selected elements
- Simulate Charge Density , Static Potential , Absorption Potential for different elements
- Used Python for calculations and generated different parameters and visualize

### US Collaborative Project of Predictive Modeling for Additive Manufacturing Research Work (01/2022 - 07/2022)

- [NIRMA University - BINGHAMTON University Major Project](#)
- Based on 3D printing models
- predicting deviation , achieve good quality structure
- Implementing through ML-DL and Prepared Research Analysis
- Used Image processing at some points

## CERTIFICATES

Portfolio Drive

Front-End Web UI Frameworks and Tools: Bootstrap 4

Front-End Web Development with React

## LANGUAGES

Gujarati , Hindi  
Full Professional Proficiency

English  
Professional Working Proficiency

## INTERESTS

Reading

Travel

Cricket

Other sports

Graphic Design and Animation

Playing Piano