

# NISHANT

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## EDUCATION

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### Integrated M.Sc. Mathematics

Sardar Vallabhbhai National Institute of Technology, Surat

2021 - Present

4th Year

**Courses** - Discrete Mathematical Structure, Numerical Analysis, Linear Algebra, Probability & Statistics, Optimization Techniques, Data Structures, Computer Networks, Artificial Intelligence.

## EXPERIENCE

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### Research and Analysis

July 2024 - Present

#### Indian Institute of Management, IIM Bangalore

Under the mentorship of Dr. Aditya Shrinivas and Dr. Gopal Naik (Jal Jeevan Mission Chair Professor Utility Development Water Economics), working on the government-funded project "Jal Jeevan Mission". My current project focuses on enhancing access to safe drinking water for over 2 million rural villages. We achieve this through research that applies statistical modeling, develops new Bayesian models, and employs spatial algorithms to predict water quality on a large scale in rural India. Certificates - <https://drive.google.com/Nishant> - certificates

### AI Engineer Internship

May 2024 - June 2024

#### Accenture, Bangalore

I worked on building AI Agents for data-driven solutions for optimizing retail media performance. My key contributions included designing and implementing a Natural Language to Pandas query engine AI Agent for analyzing demand forecasting, inventory monitoring, and pricing optimization data. I developed data aggregation functions to extract insights at the store level, such as customer segmentation and more .

### Image Processing and Deep Learning

Feb 2024 - April 2024

#### Aviac Technologies

#### IIIT, Hyderabad, India

Worked on image analysis and processing in Python using the OpenCV library. Built specific object detection projects for satellite and drone image analysis of crops to perform various processes such as segmentation, identification, and vegetation crop land counts. Explore my work at - [https://nishant0363.github.io/Crop\\_analytics\\_using\\_CV2\\_python/](https://nishant0363.github.io/Crop_analytics_using_CV2_python/)

### Data Science

Dec 2023 - Feb 2024

#### Space Application Center, ISRO

#### Ahmedabad, Gujarat, India

Under the mentorship of Dr. Sujay Dutta, a distinguished scientist at ISRO, worked on remote sensing and applied machine learning techniques to predict Nitrogen content in plants using satellite data ( Multi and Hyperspectral ).

### Natural Language Processing

Feb 2023 - Mar 2023

#### V Square Tech LLP

#### Rajkot, Gujarat, India

Built machine learning models (Random Forest, KNN and Cosine Similarity) for perfume recommendations using user reviews. Scraped data from 78,000 webpages. Performed extensive data analysis, natural language processing.

### Data Analytics

Jun 2022 - Aug 2022

#### Indian Institute of Technology Indore

Under the mentorship of Prof. Unmesh Govind Khatri, Built a data analysis project using Python. Project involved analyzing the year long effect of the Russia-Ukraine war on the vegetation of Ukraine using Landsat satellite imagery.

## PROJECTS

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Developed and deployed a Django web application that automatically runs a Python script for fuzzy matching and data preparation based on user-uploaded CSV files. This prepares the files for integration with the all-India level data available on the Socioeconomic High-resolution Rural-Urban Geographic Platform for India (SHRUG). You can access the website using the following link : <http://jjmshrug.pythonanywhere.com/>

**SKILLS AND INTERESTS**

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<b>Skills</b>	Data Analysis, Algorithm and Data Structures , Regression, Machine learning Natural Language processing, Computer Vision Techniques, Statistical Models
<b>Programming Languages</b>	Python, C, MATLAB, Git, R