

# Nitya Santhosh

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## EDUCATION

### VIT Bhopal University

BTech(CSE Health Info), CGPA: 8.69

Bhopal, Madhya Pradesh

Aug 2022 – Ongoing

## PROJECTS

### COVID-19 Twitter Sentiment Analysis using NLP | *Python, NLTK, Tweepy*

Sep 2023 – Nov 2023

- Developed an ML and DL-based algorithm to analyze Twitter comments for sentiment classification (positive, negative, neutral)
- Extracted and processed Twitter data specific to the US and Delhi regions
- Generated visual insights through word clouds and sentiment distribution graphs to illustrate trends and patterns

### Diabetic Retinopathy Classification | *Python, TensorFlow/Keras, EfficientNetB3*

March 2024 – May 2024

- Developed an EfficientNetB3 model to classify retina images into five categories: Healthy, Mild DR, Moderate DR, Proliferative DR, and Severe DR
- Trained the model over 100 epochs, achieving a high classification accuracy of 98.4 %

### Campus Mart AI Bazar (Buy & Sell Platform) | *MERN Stack, MongoDB*

Sep 2024 – April 2025

- Contributed as a Frontend developer to an AI-based bidding-enabled marketplace for students
- Collaborated on building scalable UI components and integrating them with MongoDB backend
- Gained practical exposure to full-stack workflows using React.js and Node.js

## EXPERIENCE

### Semi-Finalist in TATA Elxsi Teliport Season-2

Dec 2024 – Jan 2025

#### KAVACH- Advanced Drone Security Framework for Preventing Jamming

- Designed and implemented mutual authentication protocols and AES-256 encryption, ensuring highly secure communication and preventing unauthorized access.
- Developed failsafe mechanisms with cryptographic erasure and Return-to-Home (RTH), reducing connection timeout failures by 50 % and enhancing operational reliability.
- Integrated RSSI monitoring, FFT analysis, and FHSS, increasing interference detection accuracy by 40% and achieving exceptional performance in diverse environments.

## EXTRACURRICULAR

### Co – Lead | HR Dept.

May 2024 – Present

- Led and conducted interviews to onboard new club members for the 2024-25 tenure, enhancing recruitment processes and member selection
- Boosted member engagement by 70-80 % through the organization of interactive events, strengthening the club's community and fostering collaboration
- Facilitated multiple club meetings, effectively addressing team concerns and ensuring smooth communication within the club

### Core Member | Design Team

May 2023 – April 2024

- Designed over 10 engaging digital assets, including posters, banners, and social media posts using Canva, resulting in a 50% increase in engagement and a 25% boost in click-through rates.
- Collaborated with team members to develop creative strategies for promoting data science events, showcasing teamwork and project management skills

## CERTIFICATIONS & TRAININGS

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<b>IBM Full Stack Software Developer Professional Certificate course</b> <i>Coursera</i>	June 2023
<b>Applied Machine Learning in Python</b> <i>Coursera</i>	Dec 2023
<b>Introduction to Programming Using Python</b> <i>Conduira</i>	Nov 202
<b>Master's in Data Science</b> <i>Intellipat</i>	Sept 2023 – Present

## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, MATLAB, Excel, HTML/CSS, SQL, React.js, Node.js, Express.js, MongoDB  
**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Eclipse, Jupyter, Android Studio  
**Technologies & Frameworks:** Computer Networks, DBMS  
**Libraries:** pandas, NumPy, Matplotlib

## SOFT SKILLS

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**Soft Skills:** Teamwork, Leadership, Communication, Problem-Solving, Adaptability, Attention to Detail  
**Languages:** Hindi, English, Malayalam