

# Nitin Singh

Surat, Gujarat

Mail - [ni3.singh.r@gmail.com](mailto:ni3.singh.r@gmail.com)  
Phone Number - +91 7041808600

Github - [/nitinsingh](#)  
LinkedIn - [/nitin-singh](#)

## Education

Uka Tarsadia University | Surat, Gujarat

B.Tech Artificial Intelligence & Data Science (8th Semester)

Agg. CGPA: 8.48

Sep 2021 - Expected May 2025

## Experience

AI/ML Intern | JBcodeapp, Surat, Gujarat

May 2024 - June 2024

Project : Student Performance Analysis | Python, Numpy

- Applied MLOps concepts to create a robust machine learning pipeline.
- Developed the app backend, implementing key stages including data collection, preparation, and transformation, model trainer.

AI/ML Trainee | AlgoBrain AI, Surat, Gujarat

Sep 2023 - Jan 2024

Project : Movie-Ticket Booking Chatbot | DialogFlow CX

- Built a demo Movie-Ticket Booking Chatbot in DialogFlow CX.
- Explored the practical implementations of Time Series Analysis, moving averages and techniques like SARIMAX, ARIMA, etc.

AI/ML Engineer Intern | ELaunch Solution Pvt. Ltd. , Surat, Gujarat

Dec 2024 - Present

- Implemented a System for Face Detection and Image Search based on detected face among the large dataset of Images.
- Explored Multiple Open-Sourced Models of CV and NLP to study their architecture and working

## Projects

Vaccine Uptake Prediction Model | Numpy, Sklearn, Random Forest Algorithm

[Github Link](#)

- Developed a dual-prediction model to forecast individual likelihood of receiving XYZ and seasonal flu vaccines.
- Achieved 87% accuracy in predicting XYZ vaccine uptake, 23% above baseline.
- The goal of this project is to predict the likelihood of individuals receiving two types of vaccines.

Face Recognition Web Application | RetinaFace, Facenet

[Github Link](#)

- This is a Flask-based web application for face recognition. Users can upload or capture photos to find matched faces from a dataset. The app also provides options to download all matched photos as a zip file.
- Ensuring Proper Security implementation by adding feature "Authorized access only by Password-Protected-Link".
- Achieved 96.3% face recognition accuracy on a diverse dataset of 500+ images.

Object Detection and Distance Measurement | Computer Vision, YOLOv5, pytsx3

[Github Link](#)

- Developed a real-time object detection system using YOLOv5x model to detect multiple objects in dynamic environments.
- Implemented custom distance measurement algorithm.
- Integrated the system with speech output for real-time feedback.
- enhancing usability in practical applications like autonomous navigation.
- Achieved 92.7% accuracy in distance measurements within 10 meters range.

Text Extraction from the image | GOT OCR2.0, EasyOCR, Gradio, HuggingFace

[Github Link](#)

- Developed a robust text extraction system capable of accurately processing a wide range of image types and text styles.
- Developed a versatile system combining **GOT OCR2.0** and **EasyOCR LLM** models for accurate text.
- Used **Huggingface** and **Gradio** for Deploying the project.
- Achieved 94.8% text recognition accuracy in english language and font styles..

Gender Classification API | FastAPI, Opencv, Caffemodel

[Github Link](#)

- This is a FastAPI app for gender detection from face images using MTCNN for face detection and a pre-trained model.
- It provides 1 simple API endpoint that processes uploaded images and returns gender prediction results within 2-3 seconds.

## Skills and Hobbies

**Languages:** Python, Javascript, C/C++ (basic)

**Tools and Technology:** HTML, CSS, Node.js, HuggingFace, Power BI, Mistral - OCR

**Frameworks:** Pandas, Numpy, Scikit-Learn, PyTorch, EasyOCR, GOT OCR 2.0

**Technical:** Machine Learning, Deep Learning, Computer Vision, GenAI, MongoDB, FastAPI, Rest API

**Hobbies:** Robotics, Cricket, World Affairs

## Extracurricular Achievements

- Winner in Quiz(Group) Competition at College Fest 2023
  - 2nd Runner-Up in Script Writing(Solo) at College Fest 2023
  - Selected in Finnovate and Amalthea Hackathons by IITGN
- Selected in the Perplexity AI Business Fellow Program 2025
  - Selected in Aspire Program by Harvard Business School
  - Participated in Bhartiya Antariksh Hackathon 2024 by ISRO

## Extracurricular Activities

- Member | Swaayan Drone Club, SVNIT, Surat, Gujarat**

June 2024 - Present

  - Assisted for Drone Bootcamps by building and calibrating drones using beta flight and mission planner.
  - Explored drone hardware including flight controllers and ESC circuit boards.
- User Software Tester (Part-Time) | Nothing India, Remote**

Feb 2023 - Present

  - Conducted user trial testing for Nothing Phone 1, Nothing Phone 2, Nothing 2a, Android 14, Cmf Watch, and more.
  - Identified bugs in the software, provided surveys and collaborated with experts in this field.
- Summer Analytics | IIT Guwahati, Online**

July 2024 - Aug 2024

  - Successfully completed Summer Analytics 2024 Program.
  - Received a Certificate of Excellence for completing the program in the top 10.
- Aspire Leaders Program | Aspire Institute, Harvard Business School, Online**

Aug 2024 - Nov 2024

  - Successfully completed all three modules of the program.
  - Gained Communication, Leadership and Problem-Solving Skills.
- AI Business Fellow | Perplexity, Online**

Feb 2025 - Present

  - Selected in the Perplexity AI Business Fellow Program 2025.
  - Attended First Session and Connected with other Participants .

## Certificates

- Python for Data Science by NPTEL
  - Recent Advancements in AI and Robotics by SVNIT
  - Completed AI/ML for GeoData Analysis by ISRO
- BOOT CAMP 8.0 on Drone Technology and Applications by SVNIT
  - Completed Advanced Data Analytics Capstone course by Google
  - Completed Machine Learning for CV from Coursera

## References

Ms. Manali Modi  
+91 9662643392  
Assistant Professor  
CGPIT, Bardoli