

# Chintan Bimal Maniyar

14 Desai Park Duplex,  
Opp Akar Complex,  
Manjalpur,  
Vadodara - 390011,  
Gujarat

chintanmaniyar@gmail.com



+91 922-712-3508



[My Web Portfolio](#)



[My LinkedIn Profile](#)



[My GitHub Profile](#)



## Career Objective

To develop a research career and excel in Data Science, NLP, Machine Learning and Deep Learning via challenging milieus and ultimately gift something beautiful to the world.

## Education

**Master of Technology – Remote Sensing & GIS**

Graduating June 2021

**Specialization: Satellite Image Analysis and Photogrammetry**

Indian Institute of Remote Sensing (IIRS),  
Indian Space Research Organization (ISRO),  
Dehradun, Uttarakhand

**Bachelor of Technology – Computer Engineering**

Graduated, May 2019

Chandubhai S Patel Institute of Technology,  
Charotar University of Science and Technology,  
Anand, Gujarat

CGPA: 9.62/10

## Skills

- Programming (Python, C, C++, JAVA, R)
- Machine Learning and Data Analysis, Data Preprocessing, NLP, NLTK, Pandas
- Web Development (HTML 5, CSS 3, Bootstrap 3.3.7, Django, Javascript, DB-MySQL)
- Satellite Image Processing – ESA SNAP Tool
- Google Earth Engine
- Aquatic Remote Sensing
- OpenCV- Facial Recognition, Image Translation & Modelling
- VCS – GitHub, BitBucket

## Work Experience

- **Applied Research Intern (Machine Learning & Natural Language Processing)**  
*Dec 2018 – June 2019 (7 mos)*  
**Centre for Indian Language Technology (CFILT) Lab,**  
**Indian Institute of Technology, Bombay**  
Research intern under Prof. Ganesh Ramakrishnan. Text classification using ML, NLP, NLU and NLI - word embeddings and entity based summarization at sentence level, sampled more than 5 million tuples of textual data, developed algorithm for sentence pair similarity, and supervised web development in Django with technical and managerial panoramas. Lead a team of 4 and oversaw the client interaction and recruitment process. Student mentor to incoming interns at IITB (Probability Theory and Statistical Modelling)  
Current Research: *Weakly Supervised Text Alignment, Sentence Endorsement, BERT, Sentiment Degree Prediction*
- **Research Intern (Remote Sensing Data Science)**  
*Jul 2018 – Aug 2018 onsite, now remotely*  
**Remote Sensing and Spectroscopy Lab,**  
**University of Georgia, GA, USA**  
Research intern under Dr. Deepak Mishra for satellite image analysis and photogrammetry, and as a remote sensing data analyst – processing satellite images from the Sentinel 2, Sentinel 3 and LandSat series (NASA and European Space Agency satellites), on SNAP and Google Earth Engine, for the CyanoTRACKER project. ([cyanotracker.uga.edu](http://cyanotracker.uga.edu))  
Current research: *Rayleigh Correction for Sentinel 3 Satellite Imagery, State Change via VI using Sentinel 2 data*
- **Full Stack Web developer, SEO Specialist and Creative Content Writer**  
*Aug 2017 – Jan 2018 (5 mos)*  
**KickStart Solutions LLP, Vadodara**  
Full Stack Web Development on SEO (AdWords) and SPAs in Django and HTML + CSS stack, and RPA.  
Proofreading, technical reviewing, content writing

## Trainings

- Remote Sensing and Digital Image Analysis (IIRS, ISRO DLP), Sep 2018
- Fundamentals of Aquatic Remote Sensing (UGA, NASA Webinar), Jul 2018
- Ruby on Rails (Training @CHARUSAT), Feb 2018
- Open Data Science (Workshop @IIT Bombay), Dec 2017
- Google Android with Applied Computer Science (Google Developer Student Club, CHARUSAT), Oct 2017
- CCNA Routing and Switching – Module 1 (Cisco Networking Academy, CHARUSAT), Feb 2017
- Programming and Data Structures and Algorithms with Python (NPTEL – IIT Madras), Jul 2016 – Sep 2016
- Cyber Security and OWASP Top 10 (Azure Skynet, IIT Hyderabad, @Vadodara), Jun 2016
- Google Polymer (GDG Vadodara, MSU), Feb 2016
- Ethical Hacking, Level 1 (TechDefense Anand, @CHARUSAT), Sep 2015

## Projects

<ul style="list-style-type: none"><li>• Deep Learning Aided Image Processing<ol style="list-style-type: none"><li>1. Gender Identification of a Person from GAIT Energy Image (GEI)</li><li>2. Pneumonia Detection from Chest X-Ray Images using CNN</li></ol><i>Mar 2019 – Present; July 2019 – Present</i> <a href="#">VIEW DETAILS</a></li></ul>	<ol style="list-style-type: none"><li>1. ‘Every person has a unique GEI’ – exploiting this fact and using the walking pattern of a person to uniquely identify him/her</li><li>2. Using chest X-Ray images’ standard covariation to discriminate between normal and pneumonia affected cases</li></ol>	<i>Python, CNN, Deep Learning, GEI Generation, Video Frame Processing</i>
<ul style="list-style-type: none"><li>• Text Classification and Context Mining for Document Summarization (Research at IITB)   Deep Learning aided text alignment <i>Dec 2018 – Present</i> <a href="#">VIEW DETAILS</a></li></ul>	Categorically summarizing responses into a well formatted document by text classification and NLU for context mining. Exercising weak supervision over Wikipedia Articles and Talks to achieve contextual text alignment	<i>Python, BERT, NLP, word embedding, Machine Learning, Django</i>
<ul style="list-style-type: none"><li>• CyanoTRACKER (Research at UGA)   Deep Learning aided Satellite Image Processing <i>Jul 2018 – Present</i> <a href="#">VIEW DETAILS</a> <a href="#">VIEW DETAILS</a></li></ul>	<ol style="list-style-type: none"><li>1. Real time map marker based on tweet location and keywords</li><li>2. Sentinel 3 Satellite Imagery Dashboard on GEE with different visualizations (True color, False color, NDVI, NDCI, CCD, SSC, PC3)</li><li>3. Pine Forest Mortality Rate prediction from various VIs subject to probable state change</li></ol>	<i>Python, Twitter API, JavaScript, Google Earth Engine, SNAP, CODA (ESA)</i>
<ul style="list-style-type: none"><li>• CHEERBOT (ML, NLP) <i>Sep 2017 – Jun 2018</i> <a href="#">VIEW DETAILS</a></li></ul>	A chatbot that analyzes the user’s sentimental state and strikes up a cheerful conversation if the user is sad – <a href="#">Now a publication at IGI Global (book chapter)</a>	<i>Python, NLP, NLTK, Voice Analysis, Machine Learning</i>
<ul style="list-style-type: none"><li>• CentralEased (ML, Face Recognition) <i>Feb 2018</i> <a href="#">VIEW DETAILS</a></li></ul>	An attempt to create a centralized database using machine learning over all existing databases of a person's information, based on his/her face picture as ID/ Primary Key	<i>Python, Flask, OpenCV, HTML, CSS, Machine Learning</i>
<ul style="list-style-type: none"><li>• Management Systems as Web Apps <i>Feb 2017 – Apr 2017; Jan 2018</i> <a href="#">VIEW DETAILS</a> <a href="#">VIEW DETAILS</a></li></ul>	<ol style="list-style-type: none"><li>1. To automate the process of booking seminar halls in our university</li><li>2. To facilitate the process of acquiescing transcripts from universities for students staying far away</li></ol>	<i>HTML, CSS, Bootstrap, PHP, JavaScript</i>

## Achievements

- Co-Founder Astronomy Club, Baroda High School ONGC ([Affiliated by Astronomers Without Borders](#))
- Selected for final year project at U.R. Rao Satellite Centre, ISRO (Bangalore)
- Core Team Member – Developers Student Club run by Google, CHARUSAT
- Editor in Chief – ‘The Quill’, CHARUSAT’s university magazine
- Won scholarships from college based on academic performance; TCS CodeVita; top 5000 for years 2017 and 2018
- Won numerous coding competitions by Computer Society of India, InApp and other Techfests (Footprints, Udaan)
- Successfully completed working projects with demonstration at Infostretch Corporation (Ahmedabad), Gujarat Hackathon, Vishwakarma Hackathon (Ahmedabad)
- Co-ordinated and organized various workshops and events at Gujarat state level (college techfest – Cognizance)