

# Niel Parekh

Chennai, India

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## EDUCATION

**SSN College of Engineering, Chennai**

*Bachelor of Engineering, Computer Science*

Padma Seshadri Bala Bhavan Senior Secondary School, Chennai

*12th Standard*

August 2018 - Present

*Current GPA: 8.935 (3.82/4)*

2017-2018

*GPA: 95.0%*

## Technical Skills

**Languages:** C, C++, Python, Java, SQL, HML, CSS

**Software:** NumPy, Pandas, Boto3, Elasticsearch, LaTeX, Flask, Twilio

## Relevant Coursework

**Machine Learning:** Design and Analysis of Algorithms, Artificial intelligence, Machine Learning, Deep Learning

**Data Analysis/Structures:** Foundations of Data Science, Data Structures, Programming in Python, Probability and Statistics, Operating systems, Database management systems, Python and R in Data Science, Data Analytics using Python

**Infrastructure/Other:** Computer Networks, Internet Programming, Social Networks, AWS fundamentals

## EXPERIENCE

**Proximo**

*Data Science Intern*

Mountain View, California

Jun 2020– August 2020

- Created data visualizations using Kibana with data injected into ElasticSearch to create customer dashboards.
- Developed python scripts to access AWS S3 cloud storage using BOTO3 to carry out data extraction tasks and manipulate data.

**LatentView Analytics**

*Intern*

Chennai, India

May 2021 – July 2021

- Worked on building an automated chatbot using several azure services. Integrated the front-end made using React with mock API's, created using Python and Flask, which were tested using POSTMAN.
- Pre-processed files in several formats to ingest into Azure QnA maker and then deployed the chatbot.

**University of Cyprus**

*Research Intern*

Nicosia, Cyprus

June 2021 - Nov 2021

- Identified DDoS attacks made on Android devices using machine learning models like LGBM, Random Forest and XG Boost.
- Used Kali Linux and Termux on an Android device to create a dataset emulating the Slowloris attack
- Tested the models using stratified K-fold cross validation.

## PUBLICATIONS

**Face mask detection using SSDNET and lightweight custom CNN**

June 2021

*ICICNIS 2021 - Elsevier SSRN: Paper*

**Detection of DDoS attacks in D2D Communication Environment Using Machine Learning and Cloud Computing** In Review

IEEE Security & Privacy Journal

## PROJECTS

**Identifying Vulnerabilities in Cloud Platforms**

Chennai, India

- Identified and predicted resource vulnerabilities on cloud platforms like AWS and GCP.

**Malaria Cell Detection**

Chennai, India

- Identified malaria cells from a blood samples using computer vision techniques.

**Flight Fare Prediction**

- Used a random forest algorithm to predict the air fare of a domestic flight in India.

Chennai, India

## LEADERSHIP / COMMUNITY SERVICE

- **Collegiate :** Won several prizes and organized inter college cultural fests, tech fests, debates and MUN's ; Event Head at SSN Invenet'2021, Under Secretary-General at SSNMUN'2022
- **National Service Scheme:** Participated in volunteer work; sanitized and conducted renewable practices to the college campus; De-silting water bodies in Chennai
- **Neighborhood Volunteer:** Volunteered in tree plantation drives and blood donation camps; relief work during the Chennai floods
- **Spirituality:** Completed a 4 year Spiritual Touch programme by Shrimad Rajchandra Mission, Dharampur