

NIEL PAREKH

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EDUCATION

SSN College of Engineering, Chennai

August 2018 - Present

Bachelor of Engineering, Computer Science

Current GPA: 8.93(Upto Semester VI)

Padma Seshadri Bala Bhavan Senior Secondary School, Chennai

2017 - 2018

12th Standard

95.0%

Padma Seshadri Bala Bhavan Senior Secondary School, Chennai

2015 - 2016

10th Standard

10.0 CGPA

TECHNICAL SKILLS

Languages

C, C++, Python, Java, SQL, HTML, CSS

Software, Libraries & Other Tools

NumPy, Pandas, Boto3, Elasticsearch, LaTeX, Flask

RELEVANT COURSEWORK

Algebra and Calculus, Discrete mathematics, Data structures, Programming in Python, Probability and Statistics, Operating systems, Database management systems, Design and Analysis of Algorithms, Artificial intelligence, Machine Learning, Foundations of Data Science, Deep Learning, Computer Networks, Internet Programming, Social Networks, AWS fundamentals, Python and R in Data Science, Data Analytics using Python

[Certificates](#)

WORK EXPERIENCE

Intern at Siqsess Technologies

Oct-Nov'19

Worked on software development for Arduino boards integrated with various sensors and basic display elements, also worked with other boards like nodeMCU (Wi-Fi) and HM-10 (Bluetooth). Learnt how to control the Arduino using a HTML page and an android app made using Visual Studios. Lastly, connected the Arduino to the thingspeak to push and pull data from the cloud.

Data Science Intern at Prosimo

Jun-Aug'20

Worked on data visualizations using Kibana with data injected into ElasticSearch. There were two stages of work involved - data injection and data visualization. Made python scripts to access AWS S3 cloud storage using BOTO3 to carry out certain data extraction tasks and manipulate data. Worked on building three separate dashboards - Testbed infrastructure visibility, Test suite and Testcase visibility and User access statistics of web applications.

Intern at LatentView Analytics

May-Jul'21

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

Research Intern at University of Cyprus

Ongoing

Worked on identifying DDoS attacks made on android devices using various machine learning models like LGBM, Random Forest and XG Boost. Used kali linux and termux on an android phone to create a dataset and test the models using stratified K-fold cross validation.

PUBLICATIONS

Face mask detection using SSDNET and lightweight custom CNN ELSEVIER-SSRN
International Conference on IoT Based Control Networks and Intelligent Systems

PROJECTS

Identifying Vulnerabilities in Cloud Platforms	Ongoing
Identify and predicting resource vulnerabilities on cloud platforms like AWS and GCP.	
Malaria Cell Detection	Ongoing
Identifying malaria cells from a blood sample using computer vision techniques.	
Flight Fare Prediction	Completed
Used a random forest algorithm to predict the air fare of a domestic flight in India.	
Passport Automation System	Completed
A full stack project done using Python, Flask, SQL, HTML and CSS.	
Automated Home Security System	Completed
From the photo of an intruder a neural network identifies the person, notifying the house owner via SMS and email using the twillio API.	
Hotel Management System	Completed
Uses the power of Data Structures in C to mimic the role of a hotel receptionist.	

EXTRA CURRICULAR

National Service Scheme
Cleaning the college campus
De-silting water bodies in Chennai
Completed a 4 year course on spirituality conducted by Shrimad Rajchandra Mission Dharampur
Volunteered in tree plantation drives and blood donation camps
Relief work during the Chennai floods
Participated in various welfare programs under [SRLC](#)
Won several prizes and organized several inter school and college cultural and tech fests, debates and MUN's