

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 Siquess Technologies

Oct-Nov 2019

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 2020

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 2021

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

Jun-Nov 2021

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 ICICNIS 2021 - Elsevier SSRN Paper	June 2021
Detection of DDoS attacks in D2D Communication Environment Using Machine Learning and Cloud Computing IEEE Security & Privacy Journal	In Review

PROJECTS

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

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	
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