INDHUJA GUDLURU

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# SUMMARY

Diligent and innovative Computer Engineering Master's candidate at UNC Charlotte with a specialization in Machine Learning, Deep Learning, and Networking. Holds a strong academic and practical foundation in C, C++, and Python, along with hands-on experience in Machine Learning, Wireless Communications, IoT, and embedded systems. Eagerly seeking opportunities to leverage this knowledge in a dynamic industry setting for mutual growth and learning.

**TECHNICAL SKILLS**

**Languages:** C, C++, Python  
**Technologies:** Machine Learning, Deep Learning, IoT, 4G/2G Communications, Docker, NLP, Reinforcement Learning, Networking, SQL

**Tools:** Stream lit, Pytorch, TensorFlow, GitHub, Microsoft Suite

**EDUCATION**

## University Of North Carolina at Charlotte Charlotte, NC

Master of Science in Computer Engineering (4 GPA – 1st Semester) Aug 2023 – May 2025

**Relevant Course Work:** Computer Architecture, Embedded Operating Systems, Introduction to Machine Learning, Data communications and networking, Deep Learning, Applied Machine Learning and Reinforcement Learning

## Panimalar Engineering College INDIA

Bachelor of Engineering in Electronics and Communication (CGPA: 8.26/10) Aug 2017 – April 2021

**Relevant Course Work*:*** C, Python, Data Structures through C, Embedded Systems, Wireless communications and networks, Computer Architecture, Digital Signal Processing, Cloud Computing, Communication Networks, Mathematics***.***

## PROFESSIONAL EXPERIENCE

## Vodafone Idea Limited Chennai, INDIA

*Manager in Radio Frequency Planning & Central Performance Optimization Department | Dec 2022 – July 2023*

* Analyzed and optimized 4G parameters and KPIs & improved voice/data experience for customers.
* Resolved 100 IoT device speed issues by configuring 2G network parameters with field team support.
* Led field team in optimizing 2G/4G site performance & verifying network experience post-4G parameter configuration.

*Graduate Engineer Trainee in Radio Freq. Planning & Central Performance Optimization Department | Nov 2021 - Dec 2022*

* Conducted analysis and enhancement of network coverage, utilizing data analysis and mapping tools.

## ACADEMIC PROJECTS

## Smart security system using IOT, face recognition, and processor-to-processor communication

Integrated IoT and machine learning for enhanced surveillance capabilities for remote surveillance.

## GSM based fire detection with water sprinkler system

Implemented with Arduino for automated emergency response.

## Age prediction from the voice data

Conducted a comparative analysis on age prediction from voice recordings, utilizing classical machine learning with 23 audio features versus neural networks with 191 features.

## A priority based pre-threaded image processing server

Enhanced efficiency with a priority-based, pre-threaded server.

## CERTIFICATIONS

* Programming for everybody getting started with Python (University of Michigan) on Coursera
* C for everyone: Programming Fundamentals (University of California) on Coursera
* IOT with Raspberry Pi in Pantech Solutions

## ACHIEVEMENTS AND EXTRA-CURRICULAR ACTIVITIES

* Secured 2nd place in College Expo for innovative GSM-Based Fire Detection System Panimalar Engineering College
* Volleyball Team Player at School.