**POORNA N LUTIMATH |1nt22ec114.poorna@nmit.ac.in | (720) 475-176 |** [**(25) Poorna Lutimath | LinkedIn**](https://www.linkedin.com/in/poorna-lutimath-a325b82b8/) **|**

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| **Objective/Summary** |

* Dynamic undergraduate student pursuing a Bachelor of Engineering in Electronics and Communication with a keen interest in data science and machine learning.
* Eager to leverage technical acumen and passion for analytics to contribute effectively in the field.
* Seeking opportunities to apply classroom knowledge to real-world projects and further develop expertise in data-driven problem-solving.

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| **Education** |

Bachelor Of Engineering in Electronics and Communication

* Nitte Meenakshi Institute of Technology, Bangalore
* CGPA:8.56 until 4th sem

Pre-University in PCMC

* Narayana PU College, Bengaluru
* Percentage: 83%

High School

* Little Lillys English Public School, Bengaluru
* Percentage: 87.4%

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| **Skills** |

**Technical Skills**

* Programming Languages: Python, Embedded C
* Embedded Systems: STM32 microcontrollers, sensor integration (e.g., MPU6050)
* IoT Development: Device integration (relay motors, bulbs, etc.), IoT protocols
* PCB Design and Development: Schematic creation and PCB layout
* Machine Learning for Embedded Systems: Nano Edge AI, Cube.AI, Google Colab for model development
* Algorithm Implementation: Random Forest, Support Vector Machine (SVM), Convolutional Neural Networks (CNN)
* Data Logging and Inference: Cube IDE for STM32 boards
* Hardware Development: Prototyping with STM Nucleo-411RE, microcontroller-based systems
* Hands-on Project Experience: Embedded AI, IoT system design
* Tools: Cube IDE, Nano Edge AI, Cube.AI, Google Colab
* Circuit Design: Schematic creation and PCB layout

**Soft Skills:**

* Excellent written and verbal communication.
* Strong problem-solving and analytical skills.
* Effective time management and organization skills.
* Leadership and team management.
* Adaptability and flexibility.

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| **Internships/Projects** |

Internship: Embedded Systems and IoT

* Skills Learned: Python, Embedded C, PCB design
* IoT Projects: Hands-on experience integrating relay motors, bulbs, and other devices
* Task: Developed and implemented IoT projects with real-time control of hardware components

Mini-Project: Building Embedded Audio Classification Models

* Tools: Nano Edge AI, Cube IDE
* Programming: Embedded C
* Hardware: Microphone, STM Nucleo-411RE board
* Algorithms: Random Forest, Support Vector Machine (SVM)
* Task : Developed and implemented audio classification models on an embedded system

Mini-Project: MPU6050 Sensor Data-Based Activity Recognition

* Tools: Cube.AI, Nano Edge AI, Cube IDE, Google Colab
* Programming: Embedded C, Python
* Hardware: MPU6050 sensor, STM Nucleo-411RE board
* Algorithm: Convolutional Neural Network (CNN)
* Task: Implemented AI-based activity recognition using sensor data on an embedded system

Mini-Project: BMI Calculator

* Basic Version:
  + Task: Command-line script for calculating Body Mass Index (BMI)
  + Functionality: User inputs weight and height, calculates BMI, and classifies it
  + Technologies: Python (no additional libraries)
* Advanced Version:
  + Task: GUI-based BMI calculator with database integration
  + Functionality: Users enter name, weight, and height; saves BMI in an in-memory SQLite database
  + Technologies: Python, tkinter, sqlite3

GitHub Link: https://github.com/poornalutimath/OI\_internship

Mini-Project: Weather App

* Basic Version:
  + Task: Command-line tool fetching weather data using OpenWeatherMap API
  + Functionality: Displays city name, temperature, humidity, and weather description
  + Technologies: Python, requests
* Advanced Version:
  + Task: GUI-based weather app with icons
  + Functionality: GUI for weather details and icon display
  + Technologies: Python, tkinter, PIL (Pillow)

GitHub Link: https://github.com/poornalutimath/OI\_03INTERNSHIP

GitMini-Project: Random Password Generator

* Basic Version:
  + Task: Command-line tool for generating random passwords
  + Functionality: User-defined criteria (length, character types)
  + Technologies: Python (random, string)
* Advanced Version:
  + Task: GUI-based password generator using tkinter
  + Functionality: GUI for password length and character type selection via checkboxes
  + Technologies: Python (tkinter)

GitHub Link: <https://github.com/poornalutimath/OI_2INTERNSHIP>

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| **Certifications** |

* HP Agile Project Management
* AWS Foundation of Prompt Engineering
* Udemy: Web Development
* Udemy: Flutter and Dart
* Embedded Systems and IoT Training
* Intel Unnati Program: Developed Generative AI and LLM Models

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| **Extracurricular Activities** |

* Logo Design: Created logos for the IRIS club
* Volunteering: Participated in various club activities

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| **Awards and Achievements** |

* Gold Medal: Lemon and Spoon Race
* Silver Medal: Shot Put
* Bronze Medal: Running Race etc.