

Abhiram Mundru

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Education

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY NAGPUR

B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING

- Expected Graduation: July 2024
- CGPA: 7.84

Links

GitHub **AbhiramMundru**
Kaggle **abhirammundru**
Linkedin **AbhiramMundru**
Leetcode **AbhiramMundru**
Codechef **abhi_from_ktm**

Coursework

UNDERGRADUATE

Data Structures
Object Oriented Programming
Mathematics for Data Science
Numerical Methods and
Probability Theory
Application Programming
Computer Architecture and
Organisation
Computer Programming
Hardware Description Language
Embedded Systems

Skills

Machine Learning • Data Science •
Embedded Systems • Software
Development
Problem Solving • Team Management
• Agile

COMMUNICATION

Telugu (Native Proficiency) • English •
Hindi

Tech Stack

PROGRAMMING

Python • PHP • C/C++ • HTML/CSS •
JavaScript • Java • Shell Scripting

SOFTWARE

VS Code • Shell • \LaTeX • Matlab •
Microsoft Office • Git • Google Colab

OPERATING SYSTEMS

Windows • Linux based OS • Mac OS

DEVELOPMENT BOARDS

NodeMCU • Arduino • Raspberry Pi

Experience

CORE TEAM MEMBER

IoTICS CLUB IIITN

📅 Sep 2021 – Present

- Member of the development team.
- Provided content for blog posts on the website.

STUDENT PLACEMENT COORDINATOR

TRAINING AND PLACEMENT CELL IIITN

📅 June 2022 – Present

- Coordinates between hiring companies and college for organizing placement drives.

Achievements

INNOVATE FPGA CONTEST | SEMI-FINALISTS

We envisioned to develop a system that alerts the nearby police station, hospital, and family in case of an accident.

Tech Stack Used: DE10-Nano board, Azure IoT, Embedded Linux scripts, Python automation scripts

Projects

CRYPTOCURRENCY ANALYSIS

A project that analyses data from 2015 to 2020 and discovers patterns in the data such as trends, co-relations, probabilities, and used tools such as matplotlib, Pandas, Seaborn for data visualization.

SERVER STRESS MANAGEMENT SYSTEM

IoT based solution that constantly monitors the activity of server and notifies the admin if the system is overloaded. The system is based on NodeMCU and uses Telegram and other APIs to alert the admin.

EXTENDED HOME AUTOMATION

Based on NodeMCU, this includes all the home automation features along with Google Assistant integration and home lock and intruder alert.

Services Used: VoiceFlow, Blynk, Telegram APIs

SMART BANK SPACE

A smart banking solution developed using Java. The database is handled by MySQL.

ANTENNA | YAGI-UDA ANTENNA

Design and simulation of four-element Yagi-Uda antenna in CST Microwave Studio. The antenna is fabricated and tested using network analyzer.

TACTILE AUDIO (ONGOING)

We aim to provide sense of sound to hearing-disabled people by providing tactile stimulus to skin based on sound perceived. After preliminary training, the subject will be able to perceive sound by interpreting the stimulus.

Volunteering

TANTRAFIESTA 2021

Managed social media marketing of the event.