KASHISH THAKUR

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Education

NIT Hamirpur May 2026

Integrated MTech in Electronics and Communication Engineering (GPA: 8.25 / 10) *H.P.*

- **Relevant Coursework:** Data Structures and Algorithms (C++), C language, Microprocessors, Microcontroller and Embedded Systems, Digital Electronics, Digital Signal Processing, VLSI design Techniques

Experience

IIT Guwahati May 2024 – July 2024

Device Engineer Intern *Guwahati, Assam*

- Implemented Wafer farication of Gallium oxide layer using Gallium Actenoide
- worked on UV detector device fro detecting UV light radiation and learned various Fabrication processes like Epitaxy, Lithography, Diffusion, Desposition, Masking etc.
- Contributed in smart wearable technology.

Team Vibhav JAN 2023 – MAY 2023

Project Lead *NIT hamipur*

- Designed and implemented various Hardware projects like Robotic Hand, Automatic drug , Six legged Spider Bot,Mount Connect etc.
- Introduced and build numerous real-life application based projects.
- Conductedtechnical workshops and internal training sessions, benefiting 40+ volunteers in their hardware and Machine learning journey..

Projects

UV Dosimeter | *Esp8266 , LM358 IC, Arduino IDE, GaO based UV photodetector*

- The main idea behind this project was to stop excess exposure of UV radiation while using in sanitizing patient's bed and ward rooms.
- The Dosimeter working principle depends upon the corresponding voltage obtained when UV radiation falls on it.
- I have written a Arduino Library for the application of sensor which is i had desposit Gallium oxide in IIT guwahati's Center of Nanotechnology.

Mount Connect | *Arduino IDE, IOT, Blynk, PCB desiging*

- Led the development of a long range device for communication in mountains.
- Utilized ESP8266 with LoRa module for long-range communication in mountainous regions.
- Enabled text messaging and GPS location sharing among trekking participants
- Integrated the entire setup within trekking poles for portability and ease of use

Kidney-Tumor-Classification | *Python, Flask, Jinja2, Tensorflow, AWS, Python*

- Utilized deep learning algorithms to analyze medical imaging data for accurate tumor identification and Achieved high accuracy in distinguishing between benign and malignant kidney tumors.
- Used CNN,Tensorflow,KerasandAWS.

Text Summarizer | *Python, Flask, Hugging Face Tensorflow, AWS, Python*

- Developed a web app and deployed a model using deep learning algorithms to analyze large text data for extracting and abstracting relevant data.
- Managed project configuration and parameters through YAML and entity for seamless excecution.

Technical Skills

Languages: C++, Python, Assembly Language, Embedded C, SQL
Technologies:Linux, Windows, Arduino IDE, Keil, Tanner, MatLab, VS code, Flask, TensorflowLite, RISC, UART, RTOS, 8085, 8051, RaspberryPi, STMCubeIDE
Concepts: RISC processors, OS, ARM, DSP, Digital Electronics, Analog Electronics, Machine Learning, Edge Computuing, Internet of Things
Soft Skills:Teamwork, Content writing, Marketing, Leadership, Public Speaking, Management.