





NIKHIL KUMAR

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EDUCATION

B.Tech. Mechanical Engineering | Indian Institute of Technology, Mandi

Aug 2021 - May 2025

Subhash Smarak Inter College, Saket Nagar , Kanpur Nagar

Class XII - 80 % April 2021 , UP Board

Shivaji Inter College, Keshav Nagar, Kanpur Nagar

Class X - 87 % April 2019, UP Board

TECHNICAL SKILLS

Programming Languages C++ , Python (Libraries : Numpy, Pandas, Matplotlib, Seaborn)

Data Analytics SQL, Power BI, Excel, Statistics

Data Structure & Algorithms

CORE ENGINEERING SKILLS

Mechanical Design & Optimization Solidworks, Fusion 360, NTopology, 3D Printing, Matlab

Courses Mechanics of solid, Theory of machine, Design of machine elements

SOFT SKILLS

Problem-solving

Communication skills

Teaching or Mentorship Experience in mentoring or guiding juniors

PROJECTS

Credit Card Financial Dashboard Using Power BI

Nov 2024

- Created an interactive dashboard leveraging transaction and customer data from a SQL database to deliver real-time insights.
- Optimized data processing and analysis workflows to track key performance metrics and trends effectively.
- Provided actionable insights to stakeholders, enhancing data-driven decision-making processes.

Design Practicum Project, IIT Mandi

Feb 2023 - May 2023

Hand Gestures to Speech Converter for Dumb & Deaf people

- Technologies Used: Arduino IDE, MPU6050 gyroscope module, flex sensors, nRF24L01 module.
- Captures hand movements using MPU6050 and flex sensors.
- Processes and compares gesture data with pre-recorded data stored on an SD card.
- Training Mode: Stores gesture data and associates it with audio files.
- Testing Mode: Performs real-time gesture recognition using absolute mean error comparison.
- Output: Converts recognized gestures into speech by transmitting corresponding audio files to a speaker via the nRF24L01 module.

CERTIFICATIONS

- **Power BI Projects**: Infosys | Springboard, Dec 2024
- **Microsoft Excel for Data Analyst**: Infosys | Springboard, Jan 2025
- **Database and SQL**: Infosys | Springboard, Jan 2025