

# NIKHIL KUMAR

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## SUMMARY

Seeking a position in an organization which offers key participation, team-oriented task, carrier opportunity and expand my learning and knowledge.

## TECHNICAL SKILLS

- Python
- HTML
- C++
- Matlab
- Scilab
- AutoCAD
- VISUAL STUDIO CODE
- GITHUB

## ACADMEIC PROJECTS & EXPERIENCE

### Python (AI/ML) Intern, Dotch Endeavors, Bangalore

Sept 2023 – Dec 2023

- Boosted algorithm efficiency by 30% through rigorous ML testing and targeted data analysis.
- Contributed to three projects, raising team efficiency by 15% and swiftly adapting to new workflows.
- Sharpened AI/ML expertise (data preprocessing, model training/evaluation/fine-tuning), increasing model accuracy by 20%.

### Active Cell Balancing using MATLAB Simulink

- Built an active cell balancing system for EVs, enhancing battery performance and lifespan by 13%.
- Developed a MATLAB Simulink model that improved balancing accuracy by 15%.
- Integrated bidirectional DC-DC converters and PWM control, boosting voltage balancing precision by 20%.
- Refined real-time balancing by fine-tuning control parameters and incorporating feedback mechanisms.

### PLC based Smart Elevator Control

- Engineered and deployed a PLC-based smart elevator system with advanced algorithms, integrating sensors for load monitoring, destination prediction, and overload detection, reducing wait times by 25%.
- Developed user-friendly interfaces for real-time performance tracking and preventative maintenance, cutting system downtime by 20%.

## EDUCATION

### BANGLORE INSTITUTE OF TECHNOLOGY Bangalore karnataka

DEC 2021 - PRESENT

Pursuing Bachelor's in Elctrical and Electronics Enginnering

- CGPA - 7.4

### DAV PUBLIC SCHOOL Sector 4 , Bokaro , Jharkhand

JULY 2018 - JULY 2020

Higher Secondary Education

- Marks -77%

### KENDRIYA VIDYALAYA JAMALPUR

YEAR -2018

Secondary Education

- Marks - 81.4%