# NAKUL NANDKUMAR SANGAMNERE

Course : **B.Tech**, Electrical, 2027
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CGPA : 8.22

## ACADEMIC DETAILS

| COURSE | INSTITUTE/COLLEGE | BOARD/UNIVERSITY | SCORE | YEAR |
|--------|-------------------|------------------|-------|------|
| CLASS XII | K.R.T. Arts, B.H. Commerce & A.M. Science College, Nashik | Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE) | 85.5 % | 2023 |
| CLASS X | Maratha Highschool, Nashik | Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE) | 99.2 % | 2021 |

| Technical Proficiency | Microsoft Excel, Embedded C, Microcontrollers, Power BI, Python, MATLAB |
|-----------------------|--------------------------------------------------------------------------|

| Subjects / Electives | Electrical Machines, Power System Analysis, Electromagnetic Fields, Fundamentals of Operating System, Signals & Systems, Statistics with R, Microcontrollers and Applications, Numerical Methods & Computer Programming, Electric Circuit Analysis, Basics of Python, Analog & Digital Electronics |
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## INTERNSHIPS

**Data Science and AI Intern, IIT Jammu Summer School**                    **Jun 2025 - Jul 2025**
- Gained hands-on experience in data analysis, Python programming and AI fundamentals through structured training and practical exercises.
- Strengthened interdisciplinary skills by integrating software and data-driven approaches with core engineering concepts.

## PROJECTS

**Motor Drive Control Using Advanced Control Algorithms - Control Systems, Electrical Machines**          **Jul 2025 - Present**
Studied and implemented the fundamental principles of advanced motor control using MATLAB/Simulink, applying FOC techniques such as Clarke–Park transformations, dq-axis current control and SVPWM to understand motor behavior, torque regulation, and simulation-based electric drive analysis.

**Data-Driven Analysis and Load Forecasting of Residential Electricity Consumption - Data Science, Python**          **Jun 2025 - Jul 2025**
Designed and implemented a Streamlit-based analytics dashboard using Python, Pandas and Plotly to analyze smart meter data. Implemented time-series load forecasting and anomaly detection to identify consumption trends and irregular usage patterns.

**Solar Charge Controller and Graphical User Interface - Power Electronics**          **Dec 2024 - Apr 2025**
Designed and simulated a solar charge controller using MATLAB Simulink, incorporating a GUI for real-time visualization of battery voltage, current, and charging status. Validated system performance under varying irradiance and load conditions to ensure reliable battery charging.

**Supermarket Sales Analysis Dashboard - Data Visualization & Pre-processing**          **Dec 2023 - May 2024**
Developed an interactive Power BI dashboard for supermarket sales analysis to visualize real-time sales trends, revenue performance, and product-wise insights.

## POSITION OF RESPONSIBILITY

**Media Head - MindSpark'25**                    **May 2025 - Present**
- Led end-to-end media planning, promotions and digital outreach for the annual technical festival.
- Coordinated with design, content and core teams to ensure consistent branding and event visibility.
- Managed social media strategy, publicity campaigns and audience engagement across platforms.

## EXTRA CURRICULAR ACTIVITIES

**Coordinator at MindSpark'24**
Assisted in planning and execution of MindSpark events, supporting team coordination, logistics, and participant management. Worked with senior team members to ensure smooth on-ground operations and timely event delivery.

## CERTIFICATIONS

| CERTIFICATION | CERTIFYING AUTHORITY |
|---------------|----------------------|
| **MATLAB Onramp** | Mathworks |
| **Simulink Onramp** | Mathworks |
| **Signal Processing Onramp** | Mathworks |