KUMAR PRABHAKAR

GAYA,BIHAR

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EDUCATION

Rajiv Gandhi Institute of Petroleum Technology	**2022– 2026**
*B.Tech Electrical Engg. - **CGPA** - **7.97 (Till Fourth Semester)***	*Uttar Pradesh, India*

Bihar National Collegiate School	**2020 – 2022**
*BSEB - 12Th - **Percentage** - **83.8%***	*Patna,India*

National Public School	**2020**
*CBSE -10Th - **Percentage** - **85.8%***	*Gaya, India*

PROJECTS

Design of a traction inverter based on SiC/GAN devices for E-vehicle applications ☑ | ongoing

- Conduct a literature review of current studies on SiC and GaN devices in automotive applications to establish design foundations for traction inverters.
  Identify emerging trends and innovative techniques for utilizing SiC/GaN technology to enhance traction inverter performance and efficiency.
  Developed a driver circuit by generating an auxiliary power supply from 220V AC to 12V DC, fed into a MOSFET, and applied $\pm 5V$ from a function generator to observe the output performance.

Automobile Sales Dashboard ☑ | Power Query,Pivot Table

- Developed an interactive automobile sales dashboard using Microsoft Excel, Power Query, Pivot Table, and Pivot Chart functionalities.
  Analyzed and processed extensive data sets based on country and year reports to generate insightful visualizations.
  Utilized Power Query to clean and transform raw data, ensuring data accuracy and consistency.
  Created dynamic pivot tables and pivot charts to visualize sales trends, enabling effective decision-making and strategic planning for the company

Tag Identification using NLP ☑ | ML,NLP,PYTHON

- Developed a Tag Identification system using Natural Language Processing (NLP) to extract and analyze data from web pages through web scraping with Python's 'urllib' and 'BeautifulSoup' libraries.

  Implemented text processing techniques using NLTK to tokenize the extracted content and remove stopwords, improving the relevance of identified tags.

  Conducted frequency analysis on the cleaned tokens, visualizing the top 30 tags with NLTK's 'FreqDist' to highlight key topics and insights from the scraped text.

TECHNICAL SKILLS

Languages: Python, C, SQL, NoSQL
Developer Tools: VS Code, Malab,dSPACE
Technologies/Frameworks: GitHub

EXTRACURRICULAR

Member at IEEE RGIPT

ACHIEVEMENTS

- Merit-cum-Means Scholarship
- Qualified for JEE Advanced