NIKHIL KUMAR

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TECHNICAL SKILLS

- **Programming :** Python, C++, Data Structures & Algorithms
- **Data Analytics :** Python (NumPy, Pandas, Matplotlib, Seaborn), SQL, Excel, Power BI
- **Web Development :** HTML, CSS, JavaScript

SOFT SKILLS

- **Problem-Solving :** Proficient in analyzing challenges and devising effective solutions
- **Communication Skills**
- **Team collaboration :** Worked on academic projects and presentations, ensuring effective communication and timely completion of goals.

EXPERIENCE

Public Relations Intern at Suvidha Foundation | Dec 2024 – Jan 2025
- Drafted university partnership proposals, led fundraising campaigns, and managed digital outreach for Suvidha Overseas; developed strong stakeholder communication and strategic PR skills.

Design Practicum | IIT MANDI | Feb 2023 - May 2023
Hand Gestures to Speech Convertor gloves for Dumb 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.

PROJECTS

India General Elections 2024 Data Analysis | Python, Pandas, NumPy, Matplotlib, Seaborn
- Conducted comprehensive constituency-wise and state-wise analysis of the 2024 Indian General Election results using Python.
- Utilized pandas for data cleaning, merging, group-wise aggregation, and rank-based filtering.
- Implemented alliance classification logic (NDA, I.N.D.I.A., Other) and performed vote share, margin, and top-candidate analysis across 500+ constituencies.
- Automated generation of insights such as top 3 candidates by vote share, state-wise party performance, and alliance dominance.

Personal Portfolio Website | HTML, CSS, JavaScript
- Designed and developed a responsive personal portfolio website using HTML, CSS, and JavaScript.
- Showcased professional skills, projects, and achievements with an intuitive user interface.
- Enhanced the website's performance with optimized code and mobile-friendly layouts.
- Deployed the website using Github Pages to ensure high availability.

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

CERTIFICATIONS

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