RIYA CHOWDHURY

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EDUCATION

- **UNIVERSITY OF KALYANI**

  B.Tech ECE (2026)
  CGPA : 8.44 (Gross till 4_{th} sem)
  Qualified GATE examination

- **KENDRIYA VIDYALAYA NO.1 ISHAPORE**

  CLASS 12_{TH} (June,2022)
  Percentage: 87%

- **KENDRIYA VIDYALAYA NO.1 ISHAPORE**

  CLASS 10_{TH} (June,2020)
  Percentage: 89.4%

- **TEST SCORE**
  - GATE : 37 MARKS IN 2025, SCORE:491
  - WBJEE : 47.66 MARKS WITH RANK 7.6K
  - JEE MAINS: 90 PERCENTILE

TECHNICAL SKILLS

- **SOFTWARE TOOLS** : HTML, CSS, JAVASCRIPT , C PROGRAMMING, MATLAB (STIMULATION), HDL (Verilog, VHDL)

- Basics of AI/ML Algorithms (useful in Signal Processing or IoT)

- **HARDWARE TOOLS** : Analog and Digital Circuit Design, Microcontroller(8051, Arduino,esp32) and Microprocessors(8086 & 8085), PCB design(using KiCad) VERY BASIC

- Basics of IoT Applications (working with ultrasonic sensors)

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THEORTYICAL KNOWLEDGE

- Semiconductor Devices, Analog and Digital Circuits, Op-Amp Applications

- AM/FM, Modulation Techniques (PCM,ASK,PSK,FSK,),M-Ary Signalling,Noise

- Signals and Systems (Fourier Transform, Filters, Digital Signal Sampling)

- Network theory-Transient Analysis,2-port networks

- Electromagnetics - Electromagnetic fields and waves, Maxwell's eq.s, Transmission lines, Waveguides, Antenna theory

- Control System – Open & closed-loop systems, Stability analysis, Time & frequency response of systems

PROJECTS

- Binary to grey code converter (Using logic gates)
- Example elevator with emergency as priority (Using logic gates)
- Line following robot (Using Arduino,esp32)
- Battery management of charging and discharging (Using esp32)

- Smart Environmental Monitoring and Control System (ongoing)

INTERESTS

- Smart Environmental Monitoring and Control System (using the ESP32 microcontroller and IoT and ML for environmental prediction)
- IoT Based Projects like Smart home automation systems, Agriculture System, Weather Monitoring System
- AI/ML-Based Projects like Smart waste management system, fraud detection

ONLINE COURSE

- Registered in NPTEL in Internet of things