

# Praphul Kant

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## Education

<b>Indira Gandhi National Open University</b> <i>M.Sc. Information Security</i>	2025-27 (Expected) Current GPA: NA
<b>Magadh University</b> <i>M.Sc. Computer Science</i>	2025 Percentage : 73.63
<b>Indira Gandhi National Open University</b> <i>Bachelor of Computer Application</i>	2023 Percentage : 62.89
<b>Netaji Shri Subhash +2 School, Islampur</b> <i>12<sup>th</sup> Standard</i>	2018 Percentage : 52
<b>Netaji Shri Subhash +2 School, Islampur</b> <i>10<sup>th</sup> Standard</i>	2016 Percentage : 53.2

## Coursework

**Core CS:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, Operating Systems, Discrete Structures  
**Advanced / Applied:** Cybersecurity, Data Analytics, Internet of Things (IoT)

## Achievements

- Qualified UGC-NET (Computer Science & Applications) (Assistant Professor Eligibility) – Dec 2023 & June 2024.

## Research Interests

**Data Privacy & Security** : Privacy-preserving mechanisms for user data, anonymization techniques, and secure authentication protocols.

**Computer Networks & IoT** : Secure communication protocols for IoT devices, lightweight cryptographic methods, and privacy in resource-constrained environments.

**Cybersecurity** : Threat modeling, vulnerability assessment, and defense strategies against malware, phishing, and keylogging attacks.

**Data Analytics & Visualization** : Privacy-aware data analytics, secure handling of educational and healthcare datasets, and visualization techniques for decision-making.

## Skills

**Programming** : C/C++, Java, JavaScript, SQL

**Web Development** : HTML, CSS, Node.js, React, MongoDB

**Tools & Platforms**: Git, Unix Shell, VS Code, MySQL Workbench, MongoDB Atlas

## Experience

### Intern

*Technowell Software Solutions Pvt. Ltd.*

December 2022 – June 2023

- Built a login authentication system using Node.js, MongoDB, JavaScript, HTML & CSS.
- Worked in a team environment, contributing to backend modules and database optimization.

### Technical Assistant (Atal Tinkering Lab)

*Netaji Shri Subhash +2 School, Islampur*

July 2018 – March 2020

- Facilitating student projects on STEM, IoT, Robotics, and Arduino/Raspberry Pi based innovation.
- Maintaining lab equipment, assisting in workshops, and mentoring students in practical problem-solving.

## Projects

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### **Automation of Digital Mobile World | Visual Basic 2013, SQL Server 2014**

- Developed a User-friendly interface with cutting edge web technologies which includes Inventory Management, Customer Management, Order/Purchase Entry, Order Delivery, Warranty/Maintenance/Repairing Information, Account Information etc.
- Comprehensive e-Commerce platform integrating user-friendly front-end, scalable back-end, and reliable database for efficient resource management.

### **Weather Monitoring & Management System (IoT Project) (*NIELIT – IoT Internship*)**

- Designed an IoT-based weather monitoring system using ESP32/Raspberry Pi with sensors for temperature & humidity.
- Integrated real-time data with MQTT & Node-RED, visualized in Grafana dashboard.

### **Academic Performance Dashboard (Data Analytics Project) (*NIELIT – Data Analytics Internship*)**

- Built an Advanced Excel-based system to analyze student records & academic performance.
- Created interactive charts & pivot dashboards for tracking results and trends.

### **Keylogger (Cybersecurity Project) (*NIELIT – Cybersecurity Internship*)**

- Implemented a Windows-based Keylogger for monitoring and analyzing keystrokes as a security experiment.
- Gained hands-on exposure to ethical hacking techniques and cybersecurity countermeasures.

## Extra-Curricular Activities

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- Winner (1st Prize) – District Level Poem Writing Competition.
- NGO Volunteer – Mentoring dropout/underprivileged students for Matric completion.
- Competitive Programming – Solved 300+ coding problems on LeetCode, GFG & CodeStudio.

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