

Praphul Kant

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Education

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

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

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|---|---------------------------|
| Intern <i>Technowell Software Solutions Pvt. Ltd.</i> | December 2022 – June 2023 |
| <ul style="list-style-type: none"> • 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) <i>Netaji Shri Subhash +2 School, Islampur</i> | July 2018 – March 2020 |
| <ul style="list-style-type: none"> • 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

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

- 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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