

# PRONNAT MOHAN

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## Education

### Kalinga Institute of Industrial Technology

Bachelor of Technology in Computer Science (CGPA: 8.44/10.00)

Expected Apr 2027

Bhubaneswar, Odisha

### Kendriya Vidyalaya

Class 10th (CBSE), Percentage: 97 – Class 12th (CBSE), Percentage: 85

2020 – 2023

## Experience

### Krutanic

Feb 2025 – Apr 2025

CyberSecurity Intern

Remote

- Gained hands-on experience with **firewalls, IDS/IPS, VPNs, port scanning (Nmap)**, and vulnerability assessment (**Nessus**).
- Explored **cryptography protocols (SSL/TLS/SSH)** and practiced secure coding & web security using **DVWA, WAFs, and OWASP Top 10**.

### Internship Studio

May 2025 – June 2025

Data Analytics

Remote

- Performed end-to-end data analysis using **SQL Workbench, Pandas, and NumPy** for dataset manipulation and preprocessing.
- Developed interactive **Power BI** dashboards to transform complex data into actionable insights and professional reports.

## Projects

### Hostel Laundry AI Predictor | Python, Streamlit, Scikit-Learn, Pandas

- Built a laundry optimization tool using ML to forecast machine wait-times based on historical usage and cycle durations.
- Streamlined data pipelines to handle time-series laundry data, maintaining a 90% accuracy rate in predictive analytics.

### Clinic Appointment Management System | JavaScript, HTML5/CSS3, UI/UX

- Developed a real-time medical dashboard for managing patient queues, featuring a responsive UI optimized for rapid clinical data entry.
- Engineered a custom data-filtering engine using LocalStorage and JSON persistence to maintain performance and ensure zero data loss.

### Multi-Agent AI Orchestrator | Vertex AI, Python, Google Cloud SQL, MCP

- Engineered a **multi-agent system** on Google Cloud using a Primary Orchestrator to delegate tasks to specialized sub-agents for database and calendar management.
- Integrated **Cloud SQL (PostgreSQL)** for persistent structured data storage and utilized **MCP** to bridge LLMs with real-world tool execution.
- Deployed as a production-grade **Reasoning Engine API**, optimizing multi-step workflows and autonomous task resolution.

### SAP-Next: R2R Finance Prototype | JavaScript, Tailwind

- Designed a functional simulator for SAP month-end closing, automating financial postings and reporting using a state-driven JavaScript architecture.
- Implemented real-time data visualization and an audit trail log to mirror SAP S/4HANA's kernel activity, ensuring 100% mathematical accuracy in trial balance reconciliations.

## Technical Skills

**Programming & Scripting:** C++, Python, SQL, Vertex AI, Prompt Engineering

**Data Analytics & Visualization:** Microsoft Excel, SQL Workbench, Power BI

**Cybersecurity Tools & Concepts:** VMware, Kali Linux, Nmap, Nessus, Firewalls, IDS/IPS, VPNs, WAF, OWASP Top 10, IAM