

AKASH SHRIVASTAV

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EDUCATION

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| Master of Technology , National Institute of Technology, Raipur | 2023-2025 |
| Bachelor of Technology , Chhatrapati Shivaji Institute of Technology, Durg | 2019-2023 |
| Senior Secondary XII , Bharat Mata Hr. Sec. School, Raipur | 2019 |

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, SQL
- **Tools & Frameworks:** PyQt6, Orange, Suricata, Wireshark, Microsoft Office, Power Bi
- **Technologies:** Web Development, Machine Learning, Deep Learning

EXPERIENCE

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| NATIONAL INSTITUTE OF TECHNOLOGY | Raipur, Chhattisgarh |
| JUNIOR RESEARCH FELLOWSHIP | 06/2025-PRESENT |

- **Path rakshak (guardian of the road):** A system for enhancing public transport safety with real-time ambulance and driver monitoring.

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| DATA ANALYST INTERN | Raipur, Chhattisgarh |
| L&T SERVICES | 05/2021-03/2022 |

- Administered databases and led website design projects, ensuring system optimization and functionality
- Developed a scalable ad-serving platform tailored to educational institutions, enhancing the management of online classrooms and improving operational efficiency.

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| COMPUTER DATA ENTRY OPERATOR | Raipur, Chhattisgarh |
| VINAYAK MUSIC WORLD | 10/2020-03/2021 |

- Supervised the operation of computer and electronic data processing equipment, ensuring efficient data flow and system performance.
- Managed the setup and installation of computer hardware, system software, applications, and user accounts to maintain system integrity and functionality.

PROJECTS

- **Enhancing Network Intrusion Detection Systems with Machine Learning:A Comparative Study with intrusion datasets**
Developed and implemented a Network-Based Intrusion Detection System [Publish] using advanced machine learning algorithms, enhancing network security by identifying and mitigating potential threats in real-time.
Optimized NIDS performance by reducing false positives through feature selection and dimensionality reduction techniques, improving detection accuracy by 15% while maintaining low latency in high-traffic environments.
- **ONLINE EXAMINATION SYSTEM:**
Streamlined Examination Management: The Online Examination System simplifies the process of creating, administering, and grading exams, enabling educators to efficiently manage assessments and track student performance.
- **CAR AND BIKE RENTAL SYSYEM:**
Admin Control and Customer Feedback: The system provides administrators with tools to manage vehicle inventory and monitor bookings while enabling customers to leave ratings and feedback, ensuring continuous improvement in service quality.
- **IOT BASED HYDROPONIC SYSTEM FOR SOILL ESS ORGANIC VEGETABLE FARMING:**
Automated Hydroponic Management: The IoT-based hydroponic system enables efficient soil-less organic vegetable farming by utilizing sensors and automated controls to monitor and manage nutrient levels, pH, and environmental conditions, ensuring optimal growth for plants.

CERTIFICATIONS

- 22nd OITS International Conference on Information Technology (SRM UNIVERSITY A.P)
- Web Development (Intern Shala)
- Java (SkillUp)
- Tools and Techniques for Information and Cyber Security TICS (NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA)