

Shudhanshu Bhardwaj

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Education

Indian Institute of Information Technology
Bachelor of Technology
East Point School
12th Science and Maths

Jabalpur, MP
Dec. 2021 – Aug 2025
Ajmer, Rajasthan
April. 2019 – May 2020

Experience

Frontend Developer Intern

May. 2023 – July 2023

Auriga IT Consulting

Remote

- Improved critical page performance by **20%** with a new **ReactJS** component.
- Engineered and deployed **3** ReactJS applications, **optimizing** user experience and driving user engagement.
- Optimized ReactJS code, reducing load time by **10%**.

Projects

AI-Powered Phishing Detection|Python, IMAP, Regex, GPT (OpenAI API)

- Built an email parsing system using **Python** for **phishing** detection with **85%** accuracy.
- Integrated GPT for enhanced analysis, boosting detection rates and automating response by
- Automated identification of **phishing** keywords and URLs, storing features for efficient analysis.

Surface defect detection|Python, OpenCV, Seaborn

- **Developed a defect detection** system using TensorFlow and Keras, achieving **98%** accuracy on grayscale in industrial part images.
- Built and optimized CNN models with **Python**, integrating **OpenCV** for image preprocessing.
- Trained and deployed models with streamlined workflows for **industrial defect classification**.

Q-Learning-Based Inventory Optimization System|Python, NumPy, Pandas, Q-Learning

- **Co-authoring a research paper with my professor** on a Q-learning-based inventory optimization system, achieving **15% cost reduction** by minimizing outdated inventory, shortages, and holding costs.
- The paper highlights simulations over **5,000 episodes** using **Python**, **NumPy**, and **Pandas**, showcasing the efficiency of reinforcement learning in supply chain management.

Technical Skills

Machine Learning: Q-learning, Inventory Optimization , PyTorch, TensorFlow, Keras, Reinforcement Learning

Languages: Java, Python, SQL, JavaScript, HTML/CSS

Developer Tools, and Libraries: PyTorch, TensorFlow, NumPy, Pandas, Metasploit, React JS, Material-UI

Security Expertise: Incident Response, Vulnerability Assessment, NIST Framework, ISO 27001, Networking, Penetration Testing

Achievements

- Achieved **16th rank** out of participants across India in the BitGuard Cybersecurity Hackathon organized by Mercer Mettl.
- Secured a **top 100 spot** out of 10,000+ participants in the Great AppSec Hackathon 2024 by CCoE Hyderabad and DSCI, earning a **Merit Certificate**.
- Secured **225th position** at UIUCTF 2023 Capture the Flag Tournament globally.
- Selected as a **Cybersecurity Lead** in Google Developer Student Club Jabalpur for session 2023-24.

Certification

- Google Cybersecurity Professional Certificate(2023).
- Cisco Junior Cybersecurity Analyst Certificate.
- Cisco Certified Ethical Hacker.
- ISC2 Certificate of Completion: Security Principles.