

DEEPANSHU

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Hi, I'm Deepanshu Tyagi, a curious and driven B.Tech CSE student. I love meeting new people and hearing their stories - it's amazing how much you can learn from others. I'm a strong communicator and listener, and I thrive in teams where everyone's working together towards a common goal.

I'm really passionate about Machine Learning, and I've also got experience with backend and frontend development, video editing, and hardware projects.

SKILLS

Technical Skills :

- Programming Languages: Python, C++, C, JAVA, SQL.
- Frameworks & Libraries: Flutter, TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, Flask / FastAPI, OpenCV, DBMS.
- Tools : PlatformIO, Jupyter Notebook, Google Colab, Git, Esp-01, Premiere Pro, MySQL.
- Security Tools: Burp Suite, OWASP ZAP, Metasploit, Wireshark, Hydra, Nmap, Tcpdump.
- Concepts: Penetration Testing, SQL Injection, XSS, ARP Spoofing, Root Cause Analysis (RCA), Threat Pattern Analysis.
- Operating Systems: Kali Linux, Ubuntu.

Soft Skills :

- Project Management, Multitasking, Agile, Tutor, UI/UX Design, **Video Editing**, Good listener, Communication, Mentor

EDUCATION

B.techCSE (2023-2027)

Northern India Engineering College(niec), affiliated with GGSIPU
New Delhi

- Class 12th (CBSE): 93.5% (<https://bit.ly/42EiLiU>)
- Class 10th (CBSE): 95% ([https://bit.ly/4lose1\\$](https://bit.ly/4lose1$))
- JEE Mains: 93.2 percentile (Rank:<74,000)(<https://bit.ly/4j0unT8>).

WORK EXPERIENCE

- 1. Core Team Member & Video Editor Lead | Ignite Room Delhi, India (Hybrid) |** Apr 2025 – Present
 - **Event Management:** Orchestrated end-to-end logistics and operations for major tech summits, successfully executing:
 - [Pre-meetup HackArena](#) (May 2025) at IIIT-Delhi
 - [HackArena](#) (June 2025) at IIIT-Delhi
 - [Ignite n Initiate](#) (Aug 2025) at IIIT-Delhi
 - **Leadership & Media:** Served as Video Editor Lead, directing post-production workflows and managing media teams to create promotional content that drove event participation.
 - **Operations:** Coordinated on-ground volunteers and managed agile workflows to ensure seamless execution during high-pressure hackathon environments.
- 2. Cyber Security & Data Science Intern | Hackveda Solutions Pvt. Ltd. New Delhi (On-site) |** Jul 2025 – Oct 2025
 - **Project :** Trained and implemented the "[Union Bank of India - Fraud Detection & Cyber Threat Prevention System](#)," focusing on financial security protocols.
 - **Vulnerability Assessment:** Conducted comprehensive security testing including SQL Injection (Union/Blind), XSS (Reflected/Stored), and Session Hijacking using OWASP ZAP and Burp Suite.
 - **Network Security:** Executed traffic interception and analysis using Wireshark and performed ARP Spoofing simulations to strengthen network defenses against MITM attacks.
 - **Mentorship:** Mentored students in modern cyber-security labs, designing hands-on modules for Metasploit, payload crafting, and secure hosting on Kali Linux.

CERTIFICATIONS

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| • Advanced Learning Algorithms – DeepLearning.AI,Coursera, | Completed: [Feb-2025] |
| • Supervised Machine Learning – DeepLearning.AI,Coursera, | Completed: [Oct-2024] |
| • Instagram Engagement – DeepLearning.AI,Coursera, | Completed: [Aug-2024] |
| • Reinforcement Learning – DeepLearning.AI,Coursera, | In Progress |
| • Foundations of Project Management - Google,Coursera, | Completed: [May-2025] |
| • Introduction to DataBase - Meta , Coursera, | Completed: [Jun-2025] |

PROJECTS

Union Bank of India - Fraud Detection & Threat Prevention

- Designed a cyber threat prevention framework as an industrial training project to secure financial data against potential fraud.
- Conducted rigorous vulnerability assessments using OWASP ZAP and Burp Suite, specifically targeting SQL Injection and Cross-Site Scripting (XSS) vulnerabilities.

TweetSentiment Analyzer <https://sentiment-api-v6wr.onrender.com>

- Developed a web app using Python, NLP, and logistic regression to classify X posts as positive or negative https://github.com/deepanshutyagi86/sentiment_api.git

MeetAssit

- Developed a universal AI assistant for video conferencing and integrated with tools like Trello . https://github.com/deepanshutyagi86/Meetassist_backend.git
<https://github.com/deepanshutyagi86/MeetAssitant.git>

Conversion Rate Model <https://user-conversion-1.onrender.com>

- Built a model to predict and optimize conversion rates by analyzing user behavior metrics like session duration and pages visited. https://github.com/deepanshutyagi86/user_conversion.git

Image Compressor

- Applied K-Means clustering in Python with NumPy to compress images, cutting colors to 16. https://github.com/deepanshutyagi86/compres_image.git

College_Election_Platform

- Built a React and Firestore web app for college elections with admin/student panels, OTP authentication, and secure data storage using JavaScript and DBMS. <https://github.com/deepanshutyagi86/clgElection.git>

Cardiovascular Disease Prediction

- Created ML models (Decision Trees, Random Forest, XGBoost) using scikit-learn and Python with one-hot encoding for data preprocessing. <https://github.com/deepanshutyagi86/Cardio-Disease-Predict.git>

Smart Grocery

- Developed a Flutter recipe prediction app that suggests dishes based on food ingredient expiration , Integrated Firebase for efficient data storage and retrieval, ensuring a fast and cross-platform user experience. https://github.com/deepanshutyagi86/smart_grocery-app.git

EXPERIENCES & ACHIEVEMENTS

- 1st Position** - Techkriti(2025)-ECDC (GalDodger), (Techfest-IITKanpur) [Mar-2025]
 - Runner up** - Entrepreneur'sPoint, DROID7.0 (ModyUniversity) [Apr-2025]
 - Organizer - HackAreal (Hackathon), IgniteRoom, IIITdelhi. [May-2025]
 - Participant x2 - **DSCI CTF Hackathon**, (ThePullman,Aerocity). [Dec-2024/25]
 - Participant - **Arma-Code**-2025 (IISERBHOPAL). [Mar-2025]
 - Volunteer (Video Editor)-GDGCINNOVA(2024). [Nov-2024]
 - Tutor - Physics and Maths. [2023-continue]
 - Finalist- **INNERVE9**-2025(Techfest-AITPUNE). [Feb-2025]
 - Participant - Techkriti-2025(Techfest-IITKanpur). [Mar-2025]
 - Mentor - Workshop in GOVT school , New Delhi [Dec-2025]
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