

# PRITHWIRAJ DAS

## B.Tech CSE Student

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### Summary

Motivated and detail-oriented B.Tech CSE Student seeking a challenging role in software development, IOT , AIML and Blockchain to apply technical skills and contribute to innovative projects. Eager to work in a dynamic environment where I can grow professionally, collaborate with a team, and continuously learn. Passionate about solving real-world problems using technology and committed to delivering high-quality results.

### Skills

**Programming & Querying:** C, C++, Python, Java

**Data Visualization Tools:** Advanced MS Excel, Power BI, Tableau

**Web Development:** HTML , CSS , JavaScript , Node.js

**Other Skills:** Problem-solving, Team collaboration, Time management, Quick learner

### Experience & Training

#### Google for Developers

October 2025 – December 2025

*AI/ML Virtual Internship*

*Tools Used: Google Cloud AI, TensorFlow*

- Completed a virtual internship focused on **AI and Machine Learning**, gaining practical experience with **Python, TensorFlow, and Google Cloud AI tools**. Developed and deployed **end-to-end ML models** involving data preprocessing, model training, and performance evaluation on real-world datasets.

#### Palo Alto Networks

April 2024 – June 2024

*Cybersecurity Virtual Internship*

*Tools Used: Palo Alto's cybersecurity frameworks and tools*

- Certified a virtual internship focused on **network security, threat analysis, and cloud security** using **cybersecurity frameworks and tools**.

### Projects

#### Multi-Temporal Land Use Land Cover Classification | *Google Earth Engine (JavaScript)* October 2025 – January 2025

- Developed an end-to-end multi-temporal LULC analysis system covering 8 time periods using 3 satellite missions.
- Processed and harmonized 30+ years of satellite imagery at 30 m spatial resolution, generating 8 classified LULC maps.
- Engineered 6 spectral indices (NDVI, EVI, NDBI, MNDWI, BSI, Urban Index) to improve class separability. Classified 6 land cover classes (Vegetation, Water, Urban, Cultivation, Sand, Bare) using hundreds of labeled training samples.

#### ESP32 NAS & Web File Server | *C/C++ (Arduino core), HTML/CSS/JavaScript*

January 2024 – Augus 2024

- Implemented role-based access control with 3 user roles (Admin, User, Viewer) and per-role permissions for upload, delete, system view, and admin console access.
- Developed a NAS-style file server on ESP32 running in WiFi SoftAP mode with an HTTP server with manual ban/unban for suspicious IPs.
- Created an Admin Console to view up to 100 recent log entries (timestamp, IP, user, action) and connected clients.

### Awards & Certifications

- **Smart Manufacturing & Industry 4.0 - IITD-AIA Foundation (Feb 2024):** Completed a 3-day training programme on Industry 4.0, IIoT, automation, and smart factory concepts.
- **Python for Data Science – NPTEL (Elite + Silver):** Scored 76%, ranking in the top performance bracket, with hands-on coursework in Python programming, data analysis, NumPy, Pandas, and data visualization
- **The Joy of Computing Using Python – NPTEL (Elite):** Achieved 72%, demonstrating strong proficiency in problem-solving, algorithmic thinking, and Python-based computational concepts.

### Education

#### B.Tech Computer science

2023-Present

*University of Engineering and Management, Jaipur*

*CGPA: 8.97 / 10*

#### Minor Cybersecurity

2023-Present

*University of Engineering and Management, Jaipur*

*CGPA: 8 / 10*