ARYAN LODHA

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Education

Pandit Deendayal Energy University (PDEU)	**CGPA: 8.89/10.0 (upto 6th Sem)**
B.tech in Computer Engineering	*2024*
Delhi Public School	**Percentage: 92.0%**
CBSE, Rajasthan, India	*June 2020*
Delhi Public School	**Percentage: 88.8%**
CBSE, Rajasthan, India	*May 2018*

Relevant Coursework

- Data Structures
- Computer Networks
- Artificial Intelligence
- Machine Learning
- Big Data Analytics
- Database Management
- Information Security
- Blockchain Technology

Experience

ECCube Open Lab — **May 2023 – July 2023**
Full Stack MERN Intern — **Link** — *Jaipur, Rajasthan*

- Proficiently **engineered Django and Vue.js websites** with Python backend, showcasing skills in HTML, CSS, JavaScript, jQuery, and **seamless integration of Google Maps APIs**. Demonstrated **mastery in Swift and SwiftUI** by creating a sophisticated "choose your own adventure" iOS app, highlighting expertise in declarative UI design and immersive code-driven narratives.

Projects

Image Augmentation for Enhanced Knee Arthritis Detection — ⭘ — **Aug 2023 - Nov 2023**

- Evaluated popular deep learning models (VGG16, ResNet50, DenseNet, EfficientNet) for knee arthritis prediction. Initial accuracies ranged from **40 to 83 percent**
- Selected EfficientNetB5 as the most promising model for further investigation **elevating accuracy to 97 percent** and highlighting critical impact on knee arthritis prediction

Real-Time Flood Prediction Utilizing Support Vector Machines (SVM) — ⭘ — **Feb 2023 - May 2023**

- Applying SVR with lagged average rainfall and runoff as inputs enhances flood prediction accuracy in Hoppers Crossing, Australia, effectively **modeling dynamic and nonlinear flood behavior**.
- This approach addresses crucial requirements for a **robust flood monitoring and early warning system in the Hoppers Crossing catchment.**

PLANITNOW: Productivity Platform — ⭘ — **Jan 2023 - Mar 2023**

- Streamline your daily routine with a **secure MongoDB-backed journaling app** featuring integrated to-do lists, coupled with **fast and reliable performance through a NodeJS/ExpressJS backend** and a user-friendly interface crafted with React

Property Portal: 24 Hours Hackathon — ⭘ — **March 2023**
- In a 24-hour Hackathon, developed a Property Portal streamlining transactions by **removing intermediaries**, incorporating robust user verification, and government validation. The platform ensures security, enabling transparent financial transactions and leveraging technology for swift, reliable, and efficient real estate interactions.

Technical Skills and Interests

Languages : Proficient — C • C++ • JavaScript • Swift

Technologies: • Node.JS • HTML • CSS • VueJS • SwiftUI • UI/UX • Git

Utilities and Tools: • MongoDB • XCode • Final Cut Pro • Figma

Soft Skills: • Teamwork • Learning Potential Adaptability • Problem Solving

Leadership / Extracurricular

Video Graphics Association - The FilmMaking Club — **May 2022 – June 2023**
Vice President — *PDEU*

- Organized and hosted diverse film-related events, led film productions (movies, documentaries, vlogs), and demonstrated effective leadership for club operations.
- Took part in India Film Festival (IFP) for 2 consecutive years i.e. 2021 and 2022
- Edited a short film named **Stranded** for "VGA"
- Wrote the script on an audio narrative story podcast **Mussafir** for "VGA"