

# Pradeep Bhatta

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🐙 Github 🌐 Website

## Profile

Aspiring computer vision engineer with a passion for coding, a strong analytical mindset, and entrepreneurial drive. Experienced in software development, machine learning, and leadership roles, aiming to create innovative tech solutions that address real-world challenges.

## Education

### A-Level, Budhanilkantha School

Studied Physics, Chemistry, Mathematics, Computer Science, English Language and General Paper

- Executive Member of Scout Club
- Editor and Content Manager of School Magazine

**Secondary Education Examination,**  
*Aishwarya Vidya Niketan*

## Leadership and Organizations

### Scout Club

- Organized scout activities, orientations, and games for 300+ students.
- Managed Club's finance and brought sponsorships.

### Maths and Science Technology Club

- Conducted a national math league, chess competitions, quizzes, cross-country math relays, and organized VR and planetarium sessions showcasing the universe for 1,200+ participants.

### Others

- Led a sustainability initiative, reducing food waste by 3 tons/year and planting 350+ trees, positively impacting 1,500+ individuals.
- Organized cultural events such as the Annual Dance Competition and GauriShow.
- Several Model United Nation(as a participant and moderator)

## Awards

**Honourable Mention in Asia Pacific Linguistic Olympiad, APLO** 🏆

**Himalayan Linguistic Computational Olympiad and Selected for International linguistic Olympiad, HLON**

**Finalist in the National Astronomy Olympiad and National Young Physicist's Tournament, NASO**

**Certificate of Merit, NRNA-USA**

**Letter of Appreciation,**  
*Three star Academy and Budhanilkantha School*

## Projects

### Nepali Character Classification Model

Achieved 98.7% accuracy in classifying 46 Nepali characters using CNN trained on 92,000 images.

### Document Scanner

Developed a computer vision project to scan and extract documents by removing the background.

### Tic Tac Toe Game

Created multiplayer and AI versions using the Minimax algorithm and Pygame.

### Space Shooter game

Built an endless space shooter game using Pygame.

### Pong Game

Created an AI-powered single-player Pong game.

### Snake Game

Developed the classic Snake game.

## Skills

**Programming:** Python, C, C++, Arduino, SQL, Git, Docker, Assembly Code.

**Libraries:** Pygame, NumPy, Pandas, Matplotlib, OpenCV, Torch etc

**Web Development:** HTML, CSS, JS.

**Linux:** OS, Shell scripting (Bash), ETL processes.

**Cybersecurity:** NIST frameworks, TCP/IP, Encryption and Risk management.

## Courses And Certifications

### Python For Everybody(I / II),

*University of Michigan - Coursera*

Mastered Python: syntax, control flow, data structures, OOP, regex, advanced algorithms.

### Google Cyber Security Professional Certificate(I / II), Google - Coursera

Learned cybersecurity tools, SQL, cyberattacks, ethics, Managing Risk and vulnerabilities, CISSP security domains, NIST Framework, SIEM and SOAR Tools.

### Hands on Introduction to Linux Command and Shell Scripting, IBM - Coursera

Built an automated system for encrypted password backup, reducing human error and improving security, and learning Bash scripting and Linux OS.

### AI Bootcamp - Learning Journey,

*Kings College & Hackademia - Online*

Covered Python, Git/GitHub, Docker, machine learning, data analysis, NLP, computer vision, recommendation systems, and AI engineering.