Pradeep Bhatta

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○ Github 🔗 Website

Profile

Aspiring computer engineer with a passion for coding, a strong analytical mindset, and a drive for entrepreneurship. Currently gaining hands-on experience in software development and AI to build innovative tech solutions.

Education

A-Levels, *Budhanilkantha School*
2022 – 2024
Studied Physics, Chemistry, Mathematics, Computer Science and English Language
- Treasurer at BNKS Scout Club
- Content Manager of School Magazine (BNKS Chronicles)

Professional Experience

Research Intern,
Kathmandu Institute of Applie Science (KIAS)
09/2024 – present
Developing machine learning models for drug quality detection using Raman spectroscopy under a professor's guidance.

Software Development Intern, *Yarsa Tech*
07/2024 – present
Working as a Software Developer Intern at Yarsa Tech, contributing to software testing, debugging, and project management.

Social Media Manager, *Mushoor*
07/2021 – 10/2021
Managed website and social media for Mushoor, significantly increasing their visitors and traffic.

Leadership and Organizations

Scout Club BNKS, *Treasurer*
2023 – 2024
- Led scout scout activities, orientations, scout games .
- Managed Club's finance and records and brought sponsorhip for the club.

Maths and STR club BNKS, *Program Coordinator*
2023 – 2024
- Conducted national maths league, Inter school chess competition, quizzes, cross country and math relay.
- Organized a VR and planetarium showcasing the universe session for entire school of 1200 students.

Others, *Organizer*
- Organized Annual Dance Competition and GauriShow (Cultural Program)
- Organized school cleaning and Green Week activities.
- Participated in tree plantation and created a food waste report.

Projects

Machine Learning Model for Nepali Character Classification Using CNN
09/2024 – present
ML Model that correctly classifies the 46 nepali characters, trained using 92000 images

Document Scanner
OpenCV project that scans document and produces a scanned image

Tic Tac Toe Game
Multiplayer and AI versions of Tic Tac Toe game using minmax algorithm and pygame, Built using pygame

Space Shooter game
Simple space shooter game with endless rounds using pygame

Snake Game
Simple snake game using pygame

Pong Game
Singleplayer game using pygame

Skills

Programming
Python, C, SQL, Git, Docker, (Libraries Including Pygame, Numpy, Pandas, Matplotlib, OpenCV...)

Linux and Shell Scripting
Shell Script - Bash (UNIX Shell), Extract Transform and Load (ETL)

Cybersecurity
 Frameworks including NIST and Ethics, TCP/IP

Courses And Certifications

Python with everybody (I / II), *Coursera*
- Basic python syntax and concepts including control flow and iteration, data structures llincluding list, tuples and dictionaries.

Google Cyber Security Professional Certificate (I / II), *Coursera*
- Cybersecurity tools, SQl, Types of cyberattacks, cysbesecurity ethics, Managing Risk and vulnerabilities, CISSp security domains, NIST Framework, SIEM and SOAR Tools

Hands on Introduction to Linux Command and Shell Scripting, *Coursera*
- Fucntioning of Linux System, Basic Linux command, Shell scrpting,
- Built an automated system to access and back up encrypted password files on core servers, reducing human error and enhancing security.