PRASHANNA RAJ PANDIT

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OBJECTIVE

As an engineer, I'm passionate about coding and design, aspiring to leverage my technical skills for innovation in Computer Science. With a focus on AI/ML research, I aim to contribute to the evolving technological landscape. My long-term goal involves pursuing a Ph.D. to delve into advanced research and make substantial contributions. Committed to staying at the forefront of technology, I aspire to shape the future of AI/ML research and its practical applications.

EDUCATION

Bachelor's in Electronics Communication and Information Engineering **Nov 2018-Mar 2023**

Pulchowk Campus, Institute of Engineering (IOE) , Tribhuvan University, Nepal **Percentage: 70.69%**

Higher Secondary School **2017-2018**

Kathmandu Bernhardt College, Kathmandu, Nepal **CGPA: 3.49/4.0**

RESEARCH INTERESTS

- Artificial Intelligence, Computer Vision, and its implementation in automation, pattern recognition, Intrusion detection, and computational biology.
- Machine Learning and Deep Learning
- Data mining and Big Data
- Internet of Things

SKILLS AND KNOWLEDGE AREAS

General Computer and Mathematical Proficiency

- Solid grasp of general computer and architecture knowledge acquired during undergraduate engineering studies; Microprocessor (8085 & 8086), Computer Organization and Architecture, Operating Systems, Computer Networks, Computer Graphics, Data Structure and Algorithms, Engineering Mathematics (I,II, and III), Applied Mathematics, Probability and Statistics, Numerical Methods.

Advance Computer Science Areas

- Artificial Intelligence, Big Data, Data mining

Programming Languages, and Framework

- C, C++, Python, Flutter and Dart, OpenCV, YOLO

Software/Tools

- Visual Studio, Android Studio, Proteus, Cisco Packet Tracer, Matlab, Complete MS-Office Package and Google Tools, Adobe XD, Canva, Git and GitHub

Core Electronics and Communication subjects

- Solid grasp of core electronics subjects like Electronics Devices and Circuits, advanced electronics, Communication Systems, Wireless Communication, Antenna and Propagation

Hardware

- Arduino, Raspberry Pi, ESP 8266

Language

- English, Nepali, Hindi

PUBLICATION

Title: Automation of Driving License Test using Computer Vision and Image Processing [Paper Link]

Conference: International Conference on Technologies for Computer, Electrical, Electronics & Communication (ICT-CEEL 2023)

"An approach to automate current driving license test in Nepal by developing a custom object detection model by using advanced YOLOv5 Framework"

ACADEMIC THESIS/ FINAL YEAR PROJECT

Title: Smart trial system

"The project focuses on the real-time assessment of driving license tests through the application of Computer Vision and Image Processing techniques. The system is designed to detect and track the motion of 4-wheeler vehicles throughout the trial, ensuring adherence to government regulations. The primary objective is to evaluate the successful completion of the examination by employing advanced technologies to monitor and analyze the driving tests in real time".

OTHER SEMESTER PROJECTS

- Home Automation using AlexaPI using AVS device SDK in Raspberry Pi 4: A 2nd-year project, which was demonstrated at LOCUS, automated home devices via voice commands. It integrated an ESP8266 module with custom-built Alexa on Raspberry Pi using Amazon's Alexa Voice Service SDK. [Link]
- Waste Management System Using IOT: An engineering minor project aimed to automate waste collection in our college area. Smart dustbins, embedded with ESP8266, were integrated with a mobile application for real-time monitoring, enhancing the efficiency of the waste management process. [Link]
- TunTunBlog: It was a Data Structure and Algorithm project that implements graph data structure and facilitates users to share daily blog posts with their followers. [Link]
- Vartalap- Flutter chat app using Firebase as backend [Link]
- CodeSync- A flutter application for learning programming language.

ACHIEVEMENTS

- Recipient of a full scholarship for undergraduate studies at Pulchowk Campus, characterized by a 4% acceptance rate.
- Best Paper Award at the International Conference on Technologies for Computer, Electrical, Electronics & Communication (ICT-CEEL 2023)
- Winner of All Nepal Hackathon 2023
- Participant at LOCUS Tech Fest 2020
- Former Logistics Manager at Student Union (NTBNS)
- Academic interview at live Kantipur National Television [Link]

EXPERIENCE

- C++ Tutor at Kathmandu Bernhardt College — Apr 10, 2023- Jul 10, 2023

UDEMY COURSES

• The Complete Flutter Development Bootcamp with Dart	*By Dr. Angela Yu*	Completed
• Python for Computer Vision with OpenCV and Deep Learning	*By Jose Portilla*	Completed
• 100 Days of Code: The Complete Python Pro Bootcamp	*By Dr. Angela Yu*	In Progress
• Machine Learning A-Z: AI, Python & R + ChatGPT Prize [2024]	*By Kirill Eremenko & team*	In Progress

REFERENCE

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