

# Anil Kumar Shrestha

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## EXPERIENCE

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- **Sarbham Technology** Jwagal, Lalitpur  
*AI Engineer (Python)* *December 2021 - Present*
  - **Product developemnt:** Leading cross-functional teams including developers, and designers to ensure successful product development and launch.
  - **Python based AI systems:** Design and develop AI systems including Computer Vision, NLP, and LLM.
  - **Matching system:** Building matching system based on python and PyTorch using Siamese Neural Network.
  - **Parking Lot Visulization:** Determine if parking lot is available or not.
  - **Olympian Motors:** Lead the development team of the website for a Y Combinator backed company.
- **EKbana Solutions** Kupondole, Lalitpur  
*Computer Vision Engineer* *December 2020 - 2022*
  - **Research:** Conducted research on Generative Adversarial Network (GAN).
  - **Research Paper Implementation:** Implemented some research paper in Computer Vision from scratch.
  - **EK Student Program:** Initiated EK Student Program to help students from university connect with industry experts.
  - **Satellite Image Processing:** Detect houses and roads in satellite image using deep learning.
  - **Object Detection:** Object Detection pipeline using YOLO.
  - **EKFace Dashboard:** Lead and manage dashboard development for Face recognition system.
  - **Face Recognition:** Build and deploy FaceNet model to help employee check-in and check-out.
  - **Nut and Bolt Detection:** Detect Nut and Bolt in given image and classify if they are correctly fit or not. It was a project from Japan team.
- **EKbana Solutions** *August 2020 - November 2020*  
*Computer Vision Intern*
  - **Intern:** Study Linear Algebra  
Learn numpy, pandas, OpenCV  
Understand and Implement Machine Learning algorithms  
Study Deep Learning
- **Kathmandu University Computer Club (KUCC)** KU, Dhulikhel  
*Open Source Community Coordinator* *June 2019 - 2020*
  - **Software Freedom Day (SFD):** Led and organized SFD 2019 at Kathmandu University.
  - **Workshop:** Coordinated workshops like: Game Development, Python and Linux Talk at Kathmandu University.
- **Kathmandu University** KUBH, Dhulikhel  
*System Administrator* *Sept 2018 - 2020*
  - **Networking:** Configure, operate and maintain servers at KUBH.
- **Help Nepal Network (HeNN)** Kathmandu  
*Technical Volunteer* *Oct 2016 - Oct 2023*
  - **e-Library:** Deployed, maintained and monitored e-Library, built on Edubuntu, in various districts: Syangja, Gulmi, Kaski, Lalitpur, and Saptari. Also facilitate Teacher's Training.

## EDUCATION

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- **Kathmandu University** Dhulikhel, Kavre  
*Bachelor of Science in Computer Science. Courses* *Aug 2016 - 2020*
- **Golden Gate Int'l H.S.S.** Battisputali, Kathmandu  
*10+2 (Science)* *2014 - 2016*

## RESEARCH

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- *VTON-IT: Virtual try On using Image Translation (Submitted)* 2023
- *Comparison of Virtual Machines and Containers for Small and Medium Enterprises (SMEs)* 2020
- *Implementation of HCI Principles in a Web-based Instant Messenger Application* 2019

## SKILLS

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- **Machine Learning:** Deep Learning, Neural Networks, Computer Vision, Object Detection, Segmentation, Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow, Keras, OpenCV, Virtual Try On
- **Programming & Scripting:** Python , SQL, Bash, Next.js, C++
- **Tools & Platforms:** git, GitHub, Vim, VS Code, Docker
- **Other:** Linux, LaTeX, CI/CD, Docker

## ADDITIONAL EXPERIENCE AND AWARDS

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- **IT Meet v8.0 :** Event manager: Linux Terminal Server Project (LTSP).
- **LibreOffice L10N team :** Helped in Localization of Libre Office.
- **Government of Nepal Scholarship:** Merit Based Nepal Government Scholarship in Science.
- **Golden Jubilee Scholarship:** Indian Embassy Merit Based scholarship. Selected from more than 1000 applicants.

## ADDITIONAL INTERESTS

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- *Startups, Travel, Table Tennis, Futsal*