TANEESHA SRIVASTAVA

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EDUCATION

B.Tech in Information Technology
(Honours in Artificial intelligence & Machine learning)

SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

AUGUST 2019 – 2023 Majitar, Sikkim

- CGPA : 8.8/10

Senior High school CBSE

St. Joseph Public School

June 2018 – 2019 Kota,Rajasthan

Junior High School CBSE

Oxford Model Senior Secondary School

June 2016 – 2017 kanpur, Uttar Pradesh

EXPERIENCE

Artificial Intelligence Engineer

Zreyas Technology Pvt Ltd

july 2023-Ongoing Kolkata , West Bengal

- Experienced AI Engineer adept at developing and deploying optimized machine learning and computer vision model
- Proficiency in deep learning architecture optimization and model development.
- Expertise in model deployment, optimization, and deep learning architecture demonstrated by a skilled AI Engineer.

AI/ML Intern

Zreyas Technology Pvt Ltd

Jan 2023 - May 2023 Kolkata , West Bengal

- Implemented computer vision and deep learning concepts for object detection and segmentation in embedded devices.
- Proficient in Python programming and libraries such as NumPy, Pandas, Matplotlib, TensorFlow, and OpenCV.
- Developed problem-solving, teamwork, and communication skills by collaborating with a diverse team to complete the project within the given timeframe.

Web Developer Course Creator Intern

Codemugg Inc.

Nov 2021 - Dec 2021 Remote

- Created a Full Course on **JavaScript(ES6)** programming Language concepts for web development.
- Studied basic project requirements with assigned technical lead and planned development strategies.

TECHNICAL SKILLS

- **Technical Skills:** Python,Deep Learning,Computer Vision
- **framework and libraries:** TensorFlow/PyTorch, OpenCV

PROJECTS

Virtual Garment Try-On System

Sep 2023

- Led the development of a cutting-edge Virtual Garment Try-On System, allowing customers to try on clothes digitally before purchasing online.
- Utilized GAN-based Virtual Try-On Network (VTON) for realistic garment try-ons, transforming online shopping.
- Conducted extensive training and testing of the model on a diverse dataset comprising over 10,000 garment images, resulting in exceptional performance and accuracy.
- Designed an intuitive GUI for easy virtual garment try-ons, ensuring smooth usability in any scenario.

A Plug And Play System For Object Detection And Segmentation In Embedded Device

Apr 2023

- Developed a Plug-and-Play System for object detection and segmentation in embedded devices, enhancing security in army personnel-introduced areas.
- Reducing deployment time by 40% and improving performance by 25% for object detection and segmentation.
- Seamlessly integrated the inference model by automatically converting it from PyTorch to ONNX, CoreML, and TFLite, ensuring compatibility with advanced algorithms.
- Created a versatile Python API for model deployment and training, supporting YOLOv5, PSPNet, and other state-ofthe-art algorithms.
- Achieved 82% validation accuracy by training the algorithm for 50 epochs, quantifying the significant impact.capabilities.

Evident Auditing System From Video Footage Using AI

Dec 2022

- Person Detection with Sketch Pattern Matching: Employed pattern matching SIFT algorithm to detect a person in video footage based on a provided sketch, streamlining manual analysis by trimming down video length.
- SIFT Keypoint Detection: Utilized SIFT algorithm to identify significant texture or intensity changes in video frames.
- Descriptor Extraction: Extracted descriptors for each keypoint, capturing local image structure details.
- Template Matching for Person Detection: Developed and employed a template with SIFT descriptors tailored to the person's appearance in the sketch, effectively filtering keypoints to ensure accurate person detection in the video.