

SIDDHESH PUNDE

7972936954 | sidpunde5@gmail.com | <https://www.linkedin.com/in/siddhesh-punde-a481b0181/>

TECHNICAL SKILLS

- Programming Languages: Python
 - Machine Learning: Algorithms, Deep Learning
 - Computer Vision: Image Manipulation, Image Segmentation
 - Neural Networks: Convolutional Neural Networks (CNN), Deep Neural Networks (DNN), Recurrent Neural Networks (RNN)
 - Frameworks/Libraries: Keras, PyTorch, TensorFlow
 - Other: Statistics, Mathematics, R&D (Research and Development)
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WORK EXPERIENCE

AI/ML Intern

Beenfield Tech PVT LTD

07/2022 - 10/2022

- Contributed to a 4-month project focused on detecting damages on cars.
 - Responsible for labeling and converting images into COCO format for object detection.
 - Labeled 5000+ images, ensuring the creation of a high-quality dataset.
 - Developed preprocessing scripts, reducing model training time by 30%.
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PROJECTS

Project: Image Classification on CIFAR-10 Dataset

- Designed and implemented a robust image classification system using the CIFAR-10 dataset, achieving exceptional accuracy and performance.
- Developed an 8-layer Convolutional Neural Network (CNN) architecture to effectively capture intricate features within the images.
- Utilized dropout regularization with a rate of 0.2 to reduce overfitting and improve model generalization.
- Achieved an impressive accuracy of 80%.

Project: HelmetWatch: Custom Object Detection for Safety Monitoring

- Curated and annotated a comprehensive dataset comprising 700 helmet images in text format.
 - The YOLOv7x model for precise object detection.
 - Fine-tuned the YOLOv7x model using the dataset, resulting in enhanced performance.
 - Successfully applied the custom object detection model to analyze a video, processing frames at a rate of 30 frames per second.
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EDUCATION

Bachelor of Engineering in Computer Science

Kavikulguru Institute of Technology and Science

08/2017 - 08/2021

- Relevant Coursework: Data Structures and Algorithms, Database Systems, Computer Networks, Operating Systems, Software Engineering
- GPA: 8.9/10