Shashank Mewada

Certified Data Science Professional

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DATA SCIENCE PROJECTS

Object detection and Monocular Depth Estimation using PyTorch

- Combined YOLOv3 with MiDaS for joint Object detection and Monocular Depth Estimation
- The model was trained on custom dataset for Personal Protective Equipment

Human Pose Estimation using ONNX models on Azure

- Implemented the paper Simple Baselines for Human Pose Estimation and Tracking
- The ONNX Model was deployed to Cloud using Azure Functions

Object Detection using PyTorch

- Object Detection was done using Pytorch implementation of Yolov3.
- The model was trained on custom dataset for Personal Protective Equipment

OFFICE PROJECTS

Vibration and Shock Calculator

- Develop calculator for Multi degree Vibration and Shock Calculation of multiple mass system
- Implement the complete Software Development Cycle of the project
- Program routines to visualize the CAD Geometry, plot the Response Curves, export Mode shapes Animation and generate Reports.

Auto Ballooning in Technical Drawings

- Process input files in DWG / PDF / TIFF format
- Implement program to place the balloon tags optimally in the unoccupied space
- Collect custom data and train Tesseract models for OCR of GD&T symbols.
- Generate First Article Inspection Report (AS9102) in Excel.

Surface Generation from Triangular Mesh, DICOM dataset

- Improve quality of surface triangular mesh using Meshmixer
- · Generate good continuity surfaces using CATIA
- Segment DICOM dataset and create STL files for 3D printing

PATENT

Phatak et al. 2016, Method for Lossless Compression and Regeneration of Digital Design Data, US10891759B2

Patent Issue Date: Jan. 12, 2021

EXPERIENCE

AMP Engineering Design Ventures LLP Senior Software Engineer

Jul 2016 - Present | Mumbai, MH

- Implement Agile methodology to the project
- Design the workflow/architecture of the project and manage the Team
- Software Development, Testing and Deployment for CAD Design Process
- Perform Structural/Fluid simulations for Root cause analysis

Graduate Engineer

Jul 2013 - Jul 2016 | Mumbai, MH

- Write programs to automate manual CAD Design procedures.
- · Model 3D CAD Parts and create Assemblies.

SKILLS

Machine Learning

- Pvtorch
- NumPv
- Pandas
- Scikit-learn
- Matplotlib
- OpenCV

Programming

- Python
- C++
 SOL
- C#
- -Jo

Technology

- AzureVS Studio
- GithubExcel
- Windows
- Linux
- PLEX

CAD

ANSYS

SolidWorks

- CATIA
- OpenGL
- AutoCADMeshmixer

SELF LEARNING

 Computer Vision III: Detection, Segmentation and Tracking (CV3DST)

Jan 2021 - Present

Extensive Vision Al Program

Sep 2020 - Dec 2020

MOOC

 Deep Learning Specialization, deeplearning.ai, Coursera

May 2020 - Aug 2020 - 2SU44333JUZH

 Applied Data Science with Python, University of Michigan, Coursera Jan

2020 - Jun 2020 - R74FYAN3SEMP

EDUCATION

University of Mumbai Bachelor of Mechanical Engineering May 2012 | Mumbai. MH

- First Class