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London, United Kingdom

SHASHANK MEWADA
CERTIFIED DATA SCIENCE PROFESSIONAL

PROFILE

Senior Engineer with 8+ years of experience in AEC, Healthcare and Manufacturing domain. Looking to leverage deep learning skills.

- Led a team of 5 developers, proficient in Python, C++
- Self-Taught Developer, skilled in Machine Learning, Depp Learning and Computer Aided Design (CAD)
- Hands-on experience leveraging Deep Learning to solve challenging business problems

PATENT 🔗

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

CERTIFICATION

Deep Learning Specialization, deeplearning.ai - Coursera
2SU44333JUZH | May 2020 - Aug 2020

Applied Data Science with Python, University of Michigan - Coursera
R74FYAN3SEMP | Jan 2020 - Jun 2020

EDUCATION

University of Mumbai
Bachelor of Mechanical Engineering | Jun 2008 - May 2012

SKILLS

Machine Learning	○ PyTorch ○ Matplotlib	○ NumPy ○ Scikit-learn	○ Pandas ○ OpenCV
Tools & Technology	○ AWS ○ Docker ○ Eigen	○ Heroku ○ DVC ○ OpenGL	○ Github ○ JIRA ○ WandB
CAD	○ AutoCAD ○ SolidWorks	○ Meshmixer ○ FreeCAD	○ Catia
Programming	○ Python ○ ObjectARX	○ C++/C# ○ PythonOCC	○ SQL ○ AutoLISP

DATA SCIENCE PROJECTS

1. Point Cloud Part Segmentation 🔗

- Implemented Dynamic Graph CNN for Learning on Point Clouds (DGCNN) paper in Pytorch
- Trained the model on ShapeNet dataset for Point Cloud Part Segmentation as POC project
- Technology Stack: Pytorch, Github

2. Fake Car Image Generator 🔗

- Collected 1400+ images from the internet for dataset
- Trained DCGAN network on the custom dataset to generate Car images using Pytorch Lightning
- Deployed model on AWS Lambda as a POC project
- Technology Stack: AWS, Pytorch, Docker, Github

WORK EXPERIENCE

AMP Engineering Design Ventures LLP -Mumbai, India
Senior Engineer | Jul 2013 – Sept 2021

1. AMP QA Dimension 🔗

- Developed a plug-in for recognition of text and GD&T symbols (±, Ø) in technical documents (DWG, TIFF, PDF)
- Reduced manual processing time per file by 80%
- Technology Stack: AWS, Pytorch, Docker, AutoCAD

2. Shockres Application

- Led team in developing an application for calculation of Vibration, Shock Response of multiple Mass System
- Developed ~70% of application including Calculator, Plots Visualisations and Mode shape Animations
- Technology Stack: C++, Eigen, Python, OpenGL, JIRA

3. DICOM Processing 🔗

- Converted CT / MRI files, generated 3D B-Rep models, Meshes and Visualization for Life critical cases in 2 days
- Provided visualisations to Surgeon for Surgery planning and 3D printed the part for optimal weight criteria
- Technology Stack: Invesalius, Meshmixer