Shashank Mewada

Machine Learning Engineer

- Aspiring Deep Learning Researcher, having 7 years of professional work experience in startup catering to Automobile, Healthcare sector
- Conceptualized and managed full software development lifecycle programs having budget of INR 10 – 30L and a team of 3 - 7 people. Core Competencies include Project Lifecycle Management (Design, Scope, Management), Software Development and Quality Assurance Testing

KEY PROJECTS

1. Image Semantic Segmentation using PyTorch

- The purpose of this project was to label specific regions of Image
- PyTorch and Python were used for model Training and visualisation
- Regions with different Classes were generated and identified

2. Tag Placement on Technical Drawing document

- The goal was to automatically tag key features in Technical document
- OpenCV, Python were used for image based input. C# and AutoCAD were used for drawing based input
- The tags were automatically placed and report was generated in Excel

3. Thermal, Fluid and Structural Analysis of Gas Incinerator Chamber.

- The goal was to perform Root cause analysis for Incinerator Chamber
- SOLIDWORKS was used for creating CAD model and ANSYS was used for CAE simulation (CFD, Structural)
- Based on simulation results, remedial measures were suggested to be implemented during next planned shutdown

WORK EXPERIENCE

AMP Engineering Design Ventures LLP, Senior Software Engineer

Jul 2016 – Present

- Analyse data, develop solutions for complex problems, and provide technical interpretation and recommendations.
- Software Development and Testing for CAD Design Process
- Perform CAE simulation for Root cause analysis

AMP Engineering Design Ventures LLP, Design Engineer

Jul 2013 - Jul 2016

- Program scripts for automating CAD Design Process
- Model CAD Parts and Assemblies

GEP Worldwide, Spend Analyst

May 2013 - Jul 2013

- Data processing, Spend classification based on Client Taxonomy
- Report generation on project link

PATENT

Method for Lossless Compression and Regeneration of Digital Design Data

Publication No.: WO2017163106A1/ US20190073799A1 - Patent Pending

EDUCATION

University of Mumbai, Bachelor of Engineering – Mechanical

May 2012

London, UK - E79AL

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TECHNICAL SKILLS

PyTorch

TensorFlow

Python

C++

Pandas

Scikit-learn

OpenCV

VS Studio / Code

Machine Learning

Computer Vision
Matplotlib

Data Visualization
ANSYS

CATIA
AutoCAD

SOLIDWORKS

SQL

GitHub

EXTRAS   (Certificates/Activities)

1.Practical Deep Learning for Coders fast.ai . Aug 2020 - Present

2.Deep Learning Specialization

deeplearning.ai, Coursera

Jun 2020 - Aug 2020

3.Applied Data Science with Python

University of Michigan, Coursera

Feb 2020 - Jun 2020

4.London PyTorch Meetup

Jun 2020 - Present