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 INR 10 - 30l in budget including 3 - 7 people. Core Competencies include Project Lifecycle Management (Design, Scoping, Management, Tracking), Team Management, Software Development and Quality Assurance Testing

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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 AS9012 format

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

TECHNICAL SKILLS

PyTorch

TensorFlow

Python

C++

Pandas

Scikit-learn

OpenCV

VS Studio / Code

Machine Learning

Matplotlib

Data Visualization

ANSYS

CATIA

AutoCAD

SOLIDWORKS

SQL

GitHub

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

- Software Development and Testing for CAD Design Process

GEP Worldwide, Spend Analyst

May 2013 - Jul 2013

- Data processing, Spend classification and Report Generation.

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

PATENT

Method for Lossless Compression and Regeneration of Digital Design Data

Publication No.: WO2017163106A1/ US20190073799A1 - Patent Pending

EDUCATION

2012 University of Mumbai, Bachelor of Engineering – Mechanical