Vedant Shrikant Utpat

Mechanical Design Engineer

Pune, Maharashtra, India

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OBJECTIVE

To pursue interesting, challenging career with reputed organization where I can use my skills to establishing and maintaining high levels of end users' satisfaction in the organization.

Key Skills

Artificial Neural Networks, Machine Learning, Engineering Design, Powder Metallurgy, Taguchi analysis, Quantitative Research, Catia, Autodesk Inventor, Qualitative Research, Data Analysis, Python, MATLAB.

EXPERIENCE

- **Nvidia Graphics Pvt Ltd**

  Process Executive

  Worked as QA for data annotation and data labeling for image datasets like LIDAR data, Cuboid data, vulnerable road user (VRU) data, Scene labeling data etc.

  Duration -April 2021 – November 2021

- **Unique MOST Application and Solutions (UMAS) Pvt. Ltd. Pune (Maharashtra)**

  Associate Consultant (Industrial Engineer)

  Duration -November 2019 - June 2020

INTERNSHIP

- **CSIR-National Chemical Laboratory, Pune** **Duration -** Dec 2018 - Jan 2019
- **CSIR- Central Mechanical Research Institute, West Bengal** **Duration -** May 2018 - June 2018
- **CSIR-National Chemical Laboratory, Pune.** **Duration -**Dec 2017 - Jan 2018

EDUCATION

- **S.K.N. Sinhgad College of Engineering, Pandharpur.**

  Masters of Technology in Mechanical Design Engineering *Duration - August 2020 – Present*

- **S.K.N. Sinhgad College of Engineering, Pandharpur.**

  Bachelors of Engineering in Mechanical Engineering *Duration July 2016 - June 2019*

PROJECTS

- **Implementation of Machine Learning Algorithms for predicting Mechanical properties of Cast Aluminum alloys**

  Developing the model with help of machine learning algorithms SVM, ANN, Random forest and Linear Regression to predict the Fatigue strength for the alloys of Cast Aluminum.

- **Implementation of Taguchi Method for Optimizing Neural Network Properties in MATLAB.**

  Taguchi Method is used to optimize the neural network properties of NN tool. L16 orthogonal array is generated in Minitab software and network properties are optimized to develop the neural network model in MATLAB.

- **Analysis of effect of distance functions in KNN regression to predict the Yield tensile strength of cast aluminum alloy.**

  Three distance function Euclidean, Manhattan, and Minkowski are used to predict the yield strength and the effect of distance function on prediction is evaluated using MAPE and coefficient of correlation.

- **Design and simulation of Pit Buffer System**

  Created a design of Pit Buffer System using Autodesk Inventor during Internship at CSIR- Central Mechanical Research Institute, Durgapur- West Bengal

- **Die and Punch design for ASTM E8 Standard Flat unmachined Tension Test Specimens for Powder Metallurgy**

  Using PTC Creo tool, die and punch is designed for ASTM E8 Standard Flat unmachined Tension Test Specimens as a part of Powder Metallurgy project.

STRENGTH

- Leading of Project.
- Research
- Time Bound.
- Self-Learning Ability.
- Cool & Calm.

DECLARATION:

I hereby declare that the information mentioned above is true to the best of my knowledge.

Yours sincerely

Vedant Shrikant Utpat