



NITYANANDA HIREMATI

ENGINEER



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ABOUT ME

Mechanical engineer with 2.5 year of experience in Finite Element Analysis and Machine learning with proficiency in Engineering simulations and Data Visualization, Machine learning model fitting and Automation using python. In current organization Embedded cutting edge AI solutions in FE Analysis along with automation, there by improving the productivity by 30%.

LINKS

Website:

<https://medium.com/@nityanandhiremath7>

ACCOMPLISHMENTS

- Received ON-Fly Award in current organization
- Secured a score of 366 in GATE ME 2018
- Prepared and Participated Eco-KART in national event held in NOYDA

WORK EXPERIENCE

QUEST GLOBAL

Bengaluru

Oct 2021 - Present

Engineer

- Client: IHI Aero Japan
- Completed 20 task till date with on-time delivery of 90% with quality of 94%.
- Carried out Hex meshing for LPT Blades, followed by Structural, Modal and Creep analysis for various stage and load conditions.
- Implemented cross platform connection between ANSYS and Python using PYANSIS. Created AI based Regression model to predict Temperature and pressure distribution. Prepared APDL scripts for various analysis for quick and accurate results.
- Blade defect detection using image recognition using CNN.
- Preparation of automation scripts for report preparation with Python 3.7 and ANSYS APDL.
- Handled weekly Japanese customer meeting with good feedback.

SNAPBIZZ

CLOUDTECH PVT

LTD

Bengaluru

Nov 2020 - Oct 2021

ML Intern

- Developed web scraping scripts which replaced 210 hr man hours for a week.
- Developed dynamic price guessing ML model and successfully deployed in AWS. Developed data cleaning and validation scripts using python replaced 50hr man hour for a week.

ACE DESIGNERS

Bengaluru

Jul 2019 - Jul 2020

Post graduate Intern

- Carried out research on Machine tool components design, analysis and FE model updating methods.
- Developed Stiffness and mass matrix reduction scripts for model order reduction. Successfully carried out modal results comparison between FE model and experimental results using MAC method to find the differences.
- Implemented FE model updating method for boring bar based on experimental results.

EDUCATION

BMS COLLEGE OF ENGINEERING

Bengaluru

2020

Master's Degree

In Machine Design with CGPA of 8.9

KLE TECH UNIVERSITY

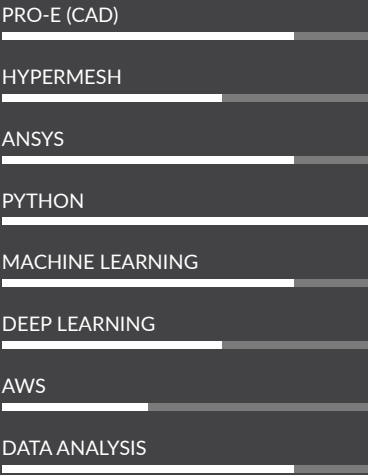
Hubli

2017

Bachelor of Technology

In Automobile with CGPA of 8.56

SKILLS



PUBLICATIONS

SCHOLARLY ARTICLES FOR
FINITE ELEMENT MODEL
UPDATING OF MACHINE
TOOL BORING BAR AND
DETERMINATION OF
CHATTER STABILITY
SCIENCE DIRECT
NOV 2020

COURSES

EDX Mar 2021	● Hands on experience in Engineering Simulations
UDAMY Mar 2021	● Learn complete python in simple way
NPTEL Apr 2020	● 'Computational fluid dynamic
UDAMY Jun 2021	● 'Machine learning with python master class

HOBBIES

PHOTOGRAPHY, PORTRAIT SKETCHING, PLAYING TABALA, TRAVELLING, COOKING