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WORK EXPERIENCE

FRACTAL ANALYTICS | DATA SCIENTIST

Aug 2021 - Current | Bangalore, India

- → Perform advanced analytics to optimise Pricing and Promotions for a leading CPG Company for over 3 markets in Europe.
- → Generate on average a profit opportunity of over € 1 M per market with predictive regression models (mean RSQ 85% & MAPE 8%).
- → Improving current practices under Revenue Growth Al Pod.

INTERNSHIPS

MUMA COLLEGE OF BUSINESS, UNIVERSITY OF SOUTH FLORIDA

GLOBAL SUMMER RESEARCH INTERN

June 2020 - May 2021 | Florida, USA | Supervision of Prof. Padmanabhan and Prof. Korimilli

- → One of the two students selected globally for the Research Program in Machine Learning Techniques for Fractographic Business Analytics; continued as Bachelor's thesis project.
- → Designed a U-Net based Convolutional Neural Net for fractographic segmentation of Ti-6Al-4V alloy samples achieving 0.82 IoU.
- → Built a dataset to demarcate complex features into 3 fracture modes.

CIPHENSE.AI | COMPUTER VISION INTERN

May 2020 - August 2020 | California, USA

- → Developed a pipeline to generate partial faces from masked images to finetune FaceNet achieving test accuracy of 87%.
- → Built a REST API for partial face alignment & landmark detection.

MARUTI SUZUKI INDIA PVT. LTD. | SUMMER INTERN AT R&D DEPARTMENT May 2019 - July 2019 | Gurgaon, India

→ Performed Scanning Electron Microscopy analysis to contributed a 12% increase in analysed cases of failure as part of Quality Assurance.

PROJECTS

BOSCH'S TRAFFIC SIGN RECOGNITION | INTER IIT TECH MEET 9.0 February 2021 - March 2021

→ Led a team of 10 to build a user friendly tool to ease experimentation on traffic sign recognition with with train accuracy 99.73% & test accuracy 98.8% on German Sign Recognition Benchmark dataset.

AGRICULTURE SUBSIDIES- WTO, INDIAN ECONOMIC POLICIES & ITS ECONOMIC IMPACT | INTERNATIONAL ECONOMICS (Dr. RUCHI SHARMA)

July 2019 - Nov 2019

→ Wrote a survey paper to analyse the regulations governing the support *Director General | Model United Nations'18, IIT Indore measures adopted by countries, the state of Indian Agriculture, impact • Captain | Institute's Women Badminton Team, IIT Indore of subsidies, & suggestions to resolve international disputes.

Courses

Certifications: Fractal Certified Data Scientist, Great Learning Program in Data Science, Analytics & Data Engg., Machine Learning by Andrew Ng Math/Programming: C/C++ Programming, Calculus, Numerical Methods, Linear Differential Equations, Complex Analysis, Differential Equations **Economics:** Macroeconomics, Microeconomics, Indian Economy, International Fconomics

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY (IIT)

INDORE BACHELOR OF TECHNOLOGY (BTECH) METALLURGY ENGINEERING AND MATERIALS SCIENCE MINOR IN HUMANITIES AND SOCIAL SCIENCES Jul 2017 - Jun 2021 | Indore, India Cum. GPA: 8.8 / 10.0

PUBLICATIONS/ CONFERENCES

USING PREDICTIVE LEARNING BASED TECHNIQUES FOR **EFFECTIVE FRACTOGRAPHIC ANALYSIS**

Elsevier Engineering Fracture Mechanics | First Authored (in submission)

Analysis

75th Annual Technical Meeting & International Conference of the Indian Institute of Metals 2021 (Best Oral Presentation)

COMPARISON OF CORROSION BEHAVIOR OF ADDITIVELY MANUFACTURED TI-6AL-4V ALLOYS HAVING DIFFERENT MESO STRUCTURE

75th Annual Technical Meeting & International Conference of the Indian Institute of Metals 2021

AWARDS/HONORS

- STAR AWARD GOOD SAMARITAN FRACTAL.AI | 2022
- NOMINATION FOR INVENTIV PAN IIT R&D FAIR | 2022
- BEST BACHELOR'S THESIS AWARD IIT INDORE | 2021
- BEST ORAL PRESENTATION 75TH ANNUAL TECHNICAL MEETING OF THE INDIAN INSTITUTE OF METALS | 2021
- SILVER MEDAL BOSCH'S TRAFFIC SIGN RECOGNITION PROBLEM STATEMENT 9th Inter-IIT Technical Meet | 2021
- QUARTER-FINALIST ASIAN PARLIAMENTARY DEBATE AT 4th Inter-IIT Cultural Meet, IIT BOMBAY | 2019
- TOP 0.1 PERCENTILE CBSE Class XII Board Examination | 2017

POSITIONS OF RESPONSIBILITY

- Sergeant At Arms, Ex VP | Fractal Bengaluru Toastmasters Club
- Placement Manager | Training and Placement Cell, IIT Indore
- Founder and President | The Debating Society, IIT Indore

- Volunteer | The Art of Living International Organisation
- Member | Entrepreneurship Cell, IIT Indore

SKILLS

PROGRAMMING

Python • C/C++ • SQL • MATLAB • PySpark

LIBRARIES/TOOLS

Keras • Numpy • Pandas • Scikit Learn • Matplotlib • PyTorch • TorchVision • Azure • PowerBI • MS Excel • Git • Docker