Dasaraju Abhishek Varma

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EDUCATION

Master's in Data Science present
University of Padova Padova, Italy
- Grade: 26.917/30
- Credits: 90/120

B.Tech in Computer Science and Engineering 07/2017 – 08/2021
Amrita Vishwa Vidyapeetham Coimbatore, India
CGPA: 8.61/10

INTERNSHIP EXPERIENCE

Computer Vision Research Engineer 03/2023 – present
SIPA s.p.a 🔗 Vittiorio Veneto, Italy
- Currently working on Industrial AI application to detect PET preform defects.

Data Science Intern 01/2020 – 06/2020
Verzeo 🔗 Chennai, India
- Developed a Machine Learning System that detects whether a Wafer is faulty or in good working condition.
- Deployment of this system in the production environment resulted in **97%** efficient replacement of faulty Wafers.
- Client reported an up to **60%** decrease in the maintenance costs.

SKILLS

Programming Languages
Python, R, SQL, Java, C

Tools and Technologies
VS code, PyCharm, RStudio, Git, Docker, MySQL, MongoDB, PySpark, HTML, CSS, JavaScript, AWS (EC2, S3 and RDS), Github, CI/CD

Frameworks
Sci-kit Learn, Tensorflow, Keras, Flask, FastAPI, Django

Operating Systems
Windows, Linux, Ubuntu

PROJECTS

Air Pressure System Fault Detection 🔗 07/2020 – 01/2021
heavy duty vehicles
- Orchestrated the pipeline to build a machine-learning system to identify the malfunctioning of vehicle brakes due to APS or some other components.
- This system lowers costs by reducing the likelihood of unnecessary repairs.

Adversarial Attacks 🔗 04/2022 – 06/2022
black box attack
- By introducing minimal perturbation to images from the CIFAR10 dataset, we compared the efficiency of zeroth-order optimization techniques (**SGD, sign-SGD, Adam**) to fool efficiently trained deep neural network architecture.
- Zeroth-order Adam is the best because it not only adds less perturbation but also has a faster convergence to the solution.

Bank Marketing Sales 🔗 04/2022 – 06/2022
term deposit subscription
- Applied generalized linear models to classify whether customers subscribe to term deposits
- Logistic regression performed better when compared with other models

Faculty Profile Builder 🔗
12/2019 – 02/2020

- Led the development of an innovative Faculty Profile Builder web application on Django.
- Created a centralized platform for students to access and interact with faculty profiles, improving appointment scheduling and communication.
- Significantly enhanced student-faculty engagement and scheduling efficiency.
- Bridged the gap between students and faculty, facilitating easier access to faculty profiles and appointments.

VOLUNTEER EXPERIENCE

Teaching Assistant
01/2021 – 06/2021
Amrita Vishwa Vidyapeetham
Coimbatore, India

- I answered inquiries from students and helped lecturers grade assignments while working as a TA for Operating Systems and Python programming courses for five months during my bachelor's degree.

CERTIFICATES

- Python Data Structures 🔗
- Problem Solving 🔗
- HTML, CSS, and Javascript 🔗

INTERESTS

Travelling | Cooking | Outdoor games | Googling

LANGUAGES

English

Telugu

Hindi

Tamil

Italian
basic

DECLARATION

I authorize the processing of my personal data , in compliance with Legislative Decree no . 196/2003 as amended by the Decree of compliance with Legislative Decree no . 101/2018 on the basis of Regulation (EU) 2016/679 of 27 April 2016

Dasaraju Abhishek Varma
Padova, 15/11/2022