PAWAN PRASHANTH KAMATH

SUMMARY

A highly motivated and accomplished AI professional with a proven track record of success. With 4 years of experience in the field, I have consistently delivered exceptional results. My expertise lies in Machine Learning and Data Science, backed by strong leadership skills and a problem-solving mindset. I am dedicated to continuous learning, always staying abreast of the latest industry trends and advancements. Currently seeking a challenging role where I can leverage my expertise to drive organizational success and make a significant impact.

SKILLS

Python · Deep Learning · Machine Learning · Git · Generative AI · Pytorch · OpenCV · PostGreSQL · Data Mining · Scipy · Kubernetes · SQL · Tensorflow · NLTK

EDUCATION

Masters - Computer Science Grade: 3.72/4.2

University College Dublin

2021 - 2022

Bachelors - Computer Science Grade: 9.5/10

NMAM Institute of Technology

2015 - 2019

PASSIONS

◆ Sports

◆ AI

Deep Learning Software Engineer

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🔗 https://www.linkedin.com/in/pawan-kamath/
🔗 https://github.com/PawanKamath?tab=repositories   📍 Dublin, Ireland

EXPERIENCE

Deep Learning Software Engineer
Intel Ireland

2022 - Present
Leixlip,Ireland

Worked in capacity as DL software engineer and Data scientist to automate the manufacturing process in the factory.

- Developed semi-supervised and self-supervised classification library in PyTorch which is used on daily basis in the Intel factory.
- Managing a Robot which inspects the chip manufacturing tools in the factory using Deep learning and computer vision algorithms for multiple countries.
- Design and development of GUI using Kivy and Database using Postgres DBaaS in python.
- Designed a pipeline to perform PaddleOCR for tags on tools and Scanner for QR code and DataMatrix codes.
- Working on feature extraction and optimizing the wafer inspection using the large dataset using like RandomForest, XGBoost and other ensemble techniques.
- Developed a object detection module to automate training of new images from database or on any amazon instance
- Working on Generative AI using PGVector and MilvusDB inorder to provide an GPT/LLM for Factory applications.
- Experience on deploying applications on Kubernetes, GPU and ELK setup for the applications.

AI Software Engineer
Robert Bosch Engineering and Business Solutions

2019 - 2021
India

Worked in capacity as AI Engineer to develop SOTA models for AD.

- Developed a t-SNE clustering algorithm for images in Python that collects image data and clusters similar images using data exploration and visualising high dimensional data
- Collected the data set of images and transformed this alone with respective annotation bounding boxes to a binary, a TensorFlow record in python
- Worked on object detection using SOTA models like yolov3 for autonomous vehicle project giving accuracy of upto 97%.
- Automated the testing architecture of the project for different data types and compilers, making it platform independent
- EDA on RADAR sensor data to determine the significant features.

PROJECTS

Feature Visualisation(Deep Learning)
2020

India

Performed feature visualisation on how every layer responds to inputs using VGG16 classification models in Tensorflow

EDA
2021

Dublin

Explorative Data analysis of 2016 Irish Census Data to determine the best possible predictor variable to predict the unemployment per county

Sentiment Analysis using NLP
2022

Dublin

Implemented Sentiment analysis on Movie Reviews using multiple models to test their accuracy

PROJECTS

NUTFLUX using SQL   2022

Dublin

Developed a SQL database called NUTFLUX (like Netflix) for storing all the information regarding Movies and provided example queries for satisfying user requirements.

STRENGTHS

Communication Skills
Hosted multiple extra-curricular activities and have worked on crosscountry projects in the company

Leadership
Worked at the capacity of Product owner for the Robot - Inspection tool

Analytics and Research
Worked on various research projects during my time at Bosch and Intel.