SHREE HARI BOYALLA
Data Science and Machine learning Engineer

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A highly motivated individual with excellent problem solving skills and a versatile experience in applying machine and deep learning to various fields like material science , computer vision and physics etc.

EDUCATION

M.Sc - COMPUTER SCIENCE WITH specialization IN DATA SCIENCE
EURECOM -BIOT,FRANCE

09/2020 - 09/2022   *GPA - 3.6/4*

Relevent Coursework

- Machine Learning
- Software development
- web development (Javascript, HTML and CSS)
- Deep Learning
- Algorithmic machine learning

B.Tech - Physics and Nanotechnology
SRM Institute of Science and Technology

06/2016 - 06/2020

WORK EXPERIENCE

Deep Learning and Computer Vision Research Engineer Intern
INRIA - SOPHIA ANTIPOLIS(STARS TEAM)

08/2021 - Present

Achievements/Tasks

- Lead the development of a video pre-processing pipeline that finds a Synchronised footage captured by two cameras placed at different views and Exploratory Data analysis on video annotations.
- Used a 3D-CNN network(I3D model) to extract the spatial-temporal embeddings of the videos.
- Then using a Temporal Model(TCN network) the actions performed by the subject were detected.

Contact: François Brémond - francois.bremond@inria.fr

Software Development and Machine learning Research Assistant.
SRM Institute of Science and Technology- FMD GROUP.

06/2018 - 06/2020   *CHENNAI,INDIA*

Functional Materials by Design(FMD) Group is a computational material science research group at SRM that aims to design functional materials using first principles Density Functional Theory (DFT) and Machine Learning.

Achievements/Tasks

- Lead the development of ABO3 PERVOSKITE STRUCTURE DATABASE using webscraping.
- Developed a GUI interface tool for visualising tolerance factor of ABO3 PEROVSKITE STRUCTURE using Tkinter and Matplotlib.
- Lead the development of an automatic data pipeline to extract Crystallographic information files and upload them to BCS server website to generate coupling constant values using selenium and beautifulsoup libraries of python.
- Built a prediction model using various machine learning algorithms(Random Forests, XGBoost and AdaBoost) to predict coupling constant values.

SKILLS

PYTHON · SQL · OPENCV · PANDAS · NUMPY · TENSORFLOW · PYTORCH · COMPUTER VISION · GIT · UNIX · DEEP LEARNING · PySpark · Matplotlib · Sci-Kit Learn · MACHINE LEARNING · WEB SCRAPING · SCIKIT-LEARN · Java script

PROJECTS

DETECTION OF DAMAGES USING SATELLITE IMAGES. (09/2020 - 02/2021)

- Won the best student project award among 100 student projects in Machine learning course.
- Developed a Deep learning model combining Pre-trained Resnet-50 model and random forest model to detect damages in satellite images of calamity affected regions.
- Achieved F1-score of 0.6 compared to a F1-score of 0.4 of a State of the art model.

Weight,Age and Gender estimation from facial images using Deep and Multi Task Learning. (03/2021 - 07/2021) ☒

- Developed an end to end Auxiliary multi-task learning model that predicts age, gender and weight simultaneously by combining a pre-trained Resnet-50 model and Rock architecture with attention mechanism using Tensor-flow.
- Achieved an accuracy of 97% in gender prediction task.
- Decreased the Mean Squared Error of Age and Weight prediction task by 20% on average.

LANGUAGES

ENGLISH
Full Professional Proficiency

FRENCH
Elementary Proficiency

SOFT SKILLS

LEADERSHIP · TEAM WORK · TIME MANAGEMENT · PROBLEM SOLVING · COMMUNICATION