Jaideep Bommidi

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Education

University of Bordeaux France
M.Sc. Image Processing and Computer Vision *Sept. 2018 – Aug 2020*
- IPCV Scholarship, CGPA: 14.0/20.0

National Institute of Technology, Tiruchirapalli India
B. Tech. Electronics and Communication Engineering *Jul. 2012 – May 2016*
- CGPA: 8.76/10.0

Technical Skills

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS, Matlab, C#
Frameworks: Tensorflow, Pytorch, Keras
Developer Tools: Jupyter Notebooks, Git, Google Cloud Platform, VS Code, Amazon AWS
Libraries: OpenCV, Pandas, Scikit-learn

Experience

Computer Vision, Full Stack developer September 2020 – Present
iFactory3D, GmBH - 3D printer company, Anamoly Detection software *Full-time, Dusseldorf, Germany*
- Develop deep learning architecture based on Tensorflow for Error detection in 3D-printing and deploy it in AWS cloud.
- Develop face detection model and extract landmarks to calculate beauty score. Develop image segmentation algorithm based on the face and landmarks extracted to find wrinkles and folds in face. This is deployed into AWS cloud.

Deep Learning plant disease classification Feb – Jul 2020
Solarvibes GmBH *Master Thesis, Berlin, Germany*
- Develop deep learning architecture based on Tensorflow for Disease and pest recognition in plants for over 212 different classes.
- Deploy the models in the AWS cloud and develop a pipeline to interact with the mobile applications and models.
- Integrated hardware sensors to AWS IoT.

Object detection and Vehicle Re-Identification May – Jul 2020
VPU Laboratory - Universidad Autonoma De Madrid *Summer Internship, Madrid*
- Detection algorithms from 2017-MOT and Nvidia AiCity Challenges are researched for improvement.
- Data cleansing and integrating algorithms across different platforms are performed and developed.

Software Developer Jul 2016 – Apr 2018
Temenos India Pvt Ltd. *Full-time, Chennai, India*
- Develop and support modules in Temenos product.
- Proposed and part in developed Image Processing algorithms for data and text extraction.
- Data Analysis is later performed on the text extracted from the images.
- Research is carried out to design and optimize SVM algorithms and existing tools.

Research Projects

Object detection in wide angle imersive image formats | *Python, Pytorch* Feb – Dec 2019

- Generated omnidirectional artifiicial image dataset and worked on SPCONV architecture.
- Analyzed object detection for new image formats such as Omni-directional or 360 degree images, focused on the limitations of current deep-learning architectures not designed to cope with the intra-class variance derived from projection distortions.
- Implemented and tested results using Pytorch framework and could achieve an accuracy of 95 percent

Image-based Cost Aware CIL Hybrid Recommendation Model | *Machine Learning* May 2016

- Bachelor Thesis.
- Designed and implemented Recommendation system to recommend items based on Image based Cost-Aware-CIL hybrid model.

Font and Text recognition from Old Scripts | *Machine Learning* Dec'14 – Mar'15

- Old scripts containing noisy data are denoised using Wavelet thresholding and trained the classifier efficiently using images by partitioning and discarding fewer data regions.
- Wavelet based methods are used to generate features from text and use SVM to train and classify the text which produced a better accuracy detection on salt and pepper noised images.

Improved denoising based Selective Arithmetic Mean Filtering with Wavelet thresholdings Jul – Dec'14

- Research is aimed at restoring images from highly corrupted images.
- The proposed method first detects the noisy pixel and those are filtered out by using adaptive mask formulated on selective arithmetic mean filtering and wavelet thresholding procedure.

Industrial Training

Machine Vision | PPKE, Budapest, Hungary Dec 2018

- Image Processing Algorithms in Vivado HLS, FPGA Laboratory.

Image Processing algorithms in PLC's and RLC's | *Vizag Steel Plant, India* June 2015

- Study and practical implementation of Image Processing algorithms in PLC's and RLC's for Steel Rollers

Extracurriculars

Member Jan 2014 – May 2016

Computer Vision

- Member of Computer Vision team for 1 year 6 months(2014-2016) at NIT Trichy.
- Lead the team for 6 months at NIT Trichy.

Public relations Mar 2015

Symposium Probe, NIT Trichy

- Member of Probe's Public Relations and Hospitality team during the year 2015.
- Probe Symposium is one of the best held for Guest Lecturers, Workshops and knowledge sharing attended by 5000 students across India at NIT Trichy.

Content Editor Feb 2013

Symposium Probe, NIT Trichy

- Member of Probe's content team during the year 2013.