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Laxman Kumarapu

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Education

Bachelor of Technology, Computer Science — **August 2017 — May 2021**
Indian Institute of Information Technology, Sri City — CGPA: 9.56/10

Higher Secondary Education — **July 2015 — April 2017**
Sri Chaitanya Junior College, Visakhapatnam — Percentage: 97.9%

Secondary Education — **July 2013 — April 2015**
Rishi Vidyalaya Gurukulam, Visakhapatnam — CGPA: 10/10

Research and Publications

Animepose: Multi-person 3D pose estimation and animation

- In this work, we present a simple yet effective solution to generate simple 3D animation of the human movement of multiple persons from a 2D video using deep learning. Our work has been published in Pattern Recognition Letters journal, 2021, distributed by Elsevier.
- Original Publication Link: https://doi.org/10.1016/j.patrec.2021.03.028
- Arxiv Preprint Link : https://arxiv.org/pdf/2002.02792.pdf

Efficient High-Resolution Image-to-Image Translation using Multi-Scale Gradient U-Net

- We introduce an efficient high-resolution image-to-image translation GAN architecture with very little computational complexity when compared with state-of-art networks like Pix2PixHD. Our work has been accepted by the 6th IAPR International Conference on Computer Vision and Image Processing (CVIP), 2021. (This paper will be published around December 2021).
- Arxiv Preprint Link : https://arxiv.org/pdf/2105.13067.pdf

Work Experience (1 yr +)

Remote Computer vision engineer — **September 2021 — Present**
OneStopAR — Los Angeles, USA

- AR shoe try-on: Working as a remote computer vision engineer on developing an AR shoe try-on application that enables footwear brands to deliver a try-before-you-buy experience that can improve online conversations and sales of the product.
- 2D pose estimation using deep learning is deployed to detect the position and orientation of the leg to project the 3D shoe model properly onto the human foot.

Computer vision and Deep learning Intern — **January 2021 — July 2021**
ALOG TECH — Hyderabad,India

- Automatic Dataset labeling Tool: Worked on developing an autonomous image dataset labeling tool with the help of a one-shot learning model using PyTorch framework.

Computer vision and Deep learning Intern — **April 2020 — August 2020**
ALOG TECH — Hyderabad,India

- Autonomous Inspection and Inventory Management: Worked on developing a tool called ALOG AIIM (Autonomous Inspection and Inventory Management), which automates product inspection and counting using static cameras. ALOG AIIM has been deployed in BPCL, a Fortune 500 Oil and Gas company in India, for counting LPG cylinders.
- Recognizing AIIM's efficient use of OpenVINO for inference time optimization, this product has been selected and featured on the "Intel Global AI Solutions" website.
- Link (Intel listing) : https://www.intel.com/content/www/us/en/internet-of-things/ai-in-production/partners/alog-tech.html

Teaching Assistant — **August 2019 — March 2020**
Indian Institute of Information Technology, Sri City — Chittoor,India

- Worked as a Teaching Assistant for the courses Programming in C, Data structures.
- My responsibilities included conducting lab sessions, tutorial sessions, creating and grading assignments for freshmen.

Projects

New Dress Generation using neural style transfer — **Sept 2019 — Dec 2019**
Computer Vision Project

- A computer vision model that takes in two dresses and mixes the style of one dress with the content of another dress to generate a new dress using neural style transfer.
- Tools: Python, Keras, Tensorflow, MATLAB

Style My Way **Sept 2019 — Dec 2019**

E-commerce Web Application

- A fashion e-commerce website made with the help of Reactjs and Nodejs with MongoDB database.
- Tools: JavaScript, Nodejs, MongoDB, Reactjs, HTML, CSS

It's Show Time **Jan 2019 — April 2019**

Web Application

- A movie ticket booking website made with the help of Reactjs and Django with MySQL database and data about movies are collected using web scraping.
- Tools: JavaScript, MongoDB, Reactjs, Django, HTML, CSS

Automatic Vehicle Registration Number Detection **Sept 2018 — Dec 2018**

Computer Vision Project

- A Computer vision project which detects vehicle plate in an image and extracts the registration number made with the help of TensorFlow Models.
- Tools: Python, Keras, Tensorflow, Tesseract OCR

Skills

Programming Languages	C, C++, Python, Javascript, MATLAB,
Framework and Libraries	Numpy, Pandas, ScikitLearn, Keras, Tensorflow, PyTorch
Web Technologies	HTML5, CSS3, Javascript, Django, Nodejs, Reactjs, AWS EC2
Database Technologies	MySQL, MongoDB
Tools	Github, MS Excel
Operating Systems	Linux, Windows

Accomplishments, Certifications, and Community services.

- **Accomplishment**: Ranked 1st (based on CGPA) in computer science undergraduate class of 200 people.
- **Certificate**: DeepLearning.AI TensorFlow Developer Specialization on Coursera.
- **Certificate**: Deep Learning Specialization on Coursera.
- **Certificate**: Online Machine Learning Course offered by Stanford University on Coursera.
- **Community Service**: I joined the Women Empowerment and Research Project's (WERP) Women in Tech initiative program, where I taught the basics of computers and even HTML and CSS basics to underprivileged high school girls in rural areas.