# Akshay L Chandra

https://akshaychandra.com

#### EDUCATION

### Indira Gandhi National Open University

Hyderabad, India

Post Graduate Diploma in Applied Statistics; 85%;

July 2017 - June 2018

• Courses: Foundations in Mathematics & Statistics, Descriptive Statistics, Probability Theory, Statistical Inference, Statistical Techniques, Industrial Statistics (Topics - Optimization Techniques, Decision Theory, Game Theory).

### Jawaharlal Nehru Technological University

Hyderabad, India

Bachelor of Technology in Computer Science And Engineering, 76%;

Aug. 2013 - May 2017

- Major Project: Built an intelligent web application using ASP.NET for efficient placements administration, with a prediction module that predicts students' placements with 87% accuracy.
- Excelled In Courses: Mathematics, Predictive Analytics, Big Data Analytics, Java Programming, Design And Analysis Of Algorithms, Operating Systems, Computer Networks.

#### Publications

- 1. Akshay C Lagandula, S.V. Desai, Vineeth N Balasubramanian, S. Ninomiya, Wei Guo. Active Learning with Weak Supervision for Cost-Effective Panicle Detection in Cereal Crops. Preprint. Under Review at BMC Plant Methods.
- 2. **Akshay C Lagandula**, S.V. Desai, Wei Guo, S. Ninomiya, Vineeth N Balasubramanian. An Adaptive Supervision Framework for Active Learning in Object Detection. British Machine Vision Conference (**BMVC**) 2019.

# RESEARCH/WORK EXPERIENCE

## Indian Institute Of Technology Hyderabad

Hyderabad, India

Research Assistant, Visual Learning And Intelligence Lab

Dec. 2018 - Present

• Working under the guidance of **Prof. Vineeth N Balasubramanian** on Deep Active Learning for Plant Phenotyping, as part of a DST-JST SICORP Collaborative Project of IIT-Hyderabad with University of Tokyo, IIT-Bombay, IIIT-Hyderabad, and PJTSAU.

## **GGK Technologies**

Hyderabad, India

Associate Software Engineer, AI & ML Team

June 2017 - Sept. 2018

- Optimized business processes for clients across multiple sectors like health care, retail, e-commerce by building useful
  prediction models, capturing customer/patient behavior patterns, mining causation etc. Exclusively worked on building a
  Computer Vision application that detects product pickups in a retail store from just the CCTV footage.
- Won **Trainee-Of-The-Month** award in July 2017 among 28 other trainees.
- Won **Star-Of-The-Month** award in August 2018 for successfully incorporating an Object Detection model in the above mentioned Computer Vision application.

## OTHER EXPERIENCE

• Udacity. Project Reviewer & Mentor. Computer Vision Nanodegree

Oct. 2018 - Present

• EduRidge India. Machine Learning Instructor

May 2018 - Dec. 2018

#### Projects

- Image & Bounding Box Annotation Slicer: An object detection data transformer. Slices images and their bounding box annotations into smaller tiles, both into specific sizes and into any arbitrary number of equal parts.
- Mouse Cursor Control With Facial Movements: Controls mouse cursor with facial movements, uses Deep Learning, works with a regular webcam. Hands-free, no wearable hardware or sensors needed.
- Automatic Image Captioning With Visual Attention: A deep Encoder-Decoder model with Visual Attention trained on the famous COCO dataset, implemented from scratch.
- Selfie Filters Using Facial Landmarks: Places Snapchat like filters on faces by detecting 15 facial landmarks.
- Robust Morse Code Converter: Converts Morse signalled in flashlight-flicks, eye-blinks, mouse-clicks and hand gestures.
- Alphabet Recognition Through Gestures: Recognizes alphabet in gestures detected real-time (webcam).

### SKILLS

• Python, PyTorch, TensorFlow, Keras, OpenCV, Numpy, Sklearn, Matplotlib, R. MATLAB, Java, SQL, C, C++, C#

# CERTIFICATIONS

- Deep Learning: NPTEL's 12-week, AICTE approved certification taught by Prof. Mitesh M. Khapra of IIT-Madras. Finished in the top 5% of the online class with over 700 students across India.
- Computer Vision Nanodegree: Udacity's 12-week course with 3 CV based advanced deep learning projects.
- Deep Learning Specialization: Coursera's 5-course specialization taught by Andrew Ng and deeplearning ai team.
- Oracle Certification Java SE 6 Programmer (1Z0-851): Passed the exam with 100% score.