

Akshay L Chandra

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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 L Chandra**, 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 L Chandra**, 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.