Anisha Gunjal

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Education

Pune Institute of Computer Technology University of Pune

Bachelor of Engineering in Computer, GPA: **3.86 / 4.0** (First Class with Distinction) Jul 2014 – May 2018

Experience

- **CLVR Lab, University of Southern California** Los Angeles, California
  Visiting Researcher, Supervisor: Prof. Joseph Lim May 2021 - present
  - **Task-Induced Representation Learning**
    - Learning representation from image-based observation for transfer on unseen Reinforcement Learning tasks.

- **HyperVerge, Inc.** *Silicon Valley Deep Learning Startup* Bangalore, India
  Machine Learning Engineer Jun 2018 – May 2021
  - **Document Information Extraction**
    - Lead AI Researcher for building Information Extraction pipeline using **Computer Vision** and **NLP**.
    - OCR Product deployed in India, Vietnam, Indonesia & Malaysia serving **280 million people** in 2019.
  - **Key Entity Recognition for Idenitification Documents**
    - Pre-training and finetuning BERT-like architectures for extracting key customer information from documents.
  - **Team Lead for Documents AI Research**   ○ Team Size: 6

- **ITC InfoTech** Bangalore, India
  Data Science Intern Jun 2017 – Aug 2017
  - R&D Project: Facial Emotion Recognition using Computer Vision.

Publications

Diabetic Retinopathy Grading using Deep Siamese Network *Jul 2018*
  - Poster Presentation in Joint ICML IJCAI 2018 **Workshop on Computational Biology**
  - Link to Paper ○ Link to Workshop

Achievements

- **Document Visual Question Answering Challenge, CVPR 2020** *Lead Researcher* *Mar 2020 – Sep 2020*
  - Project Link: *https://github.com/anisha2102/docvqa*
  - Question Answering on document images using modified BERT architecture for text and layout representations.
  - **Leaderboard Rank 4** ○ **Blogpost** ○ **Workshop**

- **Hack2Innovate**: MUMBAI EDITION *National Level AI Hackathon by Niti Ayog* *Nov 2017*
  - 1st position : NVIDIA's Open AI Challenge ○ **Sketch2Face** *github.com/anisha2102/sketch2face*
    - Conditional GANs for generating photographs from human sketches.
  - 1st position : Samsung's SMS Classification Challenge
  - 1st position : Samsung's Hand Gesture Recognition Challenge

Teaching

Teaching Assistant, PICT : Multidisciplinary Natural Language Processing. *Jul 2017 – Dec 2017*
  - Topics: *Machine Learning and NLP, Speech Communication, Advanced Tools and Applications of NLP*

Research Projects

Automatic Parsing of Handwritten Answer Sheets advised by Prof. Geetanjali Kale   Jul 2020 – Present
- Developing Handwritten Text Detection and Document Semantic Parsing algorithms for exam answer sheets.

iMaterialist Challenge 2018 - Furniture : FGVC5 Workshop at CVPR 2018   Mar 2018
- A fine grained image classification problem of categorising furniture into 128 classes.
- Leaderboard Rank : 46 (Top 10 percent)

Plant Seedling Classification: Kaggle Competition   *Jan 2018*
- Project Link: *github.com/anisha2102/plant-seedling-classification*
- Image Recognition to identify the species of plant seedling images. ∘ Mean F-Score: 0.97

Technical Skills

Languages and Frameworks: Python, C++, Java, Pytorch, Tensorflow, Keras, Caffe, MXNet, TensorRT
Technologies: Computer Vision, Natural Language Processing, Machine Learning, Full Stack Deep Learning

Certifications

- **Neural Networks and Deep Learning** *by deeplearning.ai*
- **Programming Mobile Applications for Android Handheld Systems** *by University of Maryland, College Park*
- **Introduction to HTML5 and CSS3** *by University of Michigan*

Societies and Involvements

- **JupyterCon 2020** : Reviewer
- **Deep Learning Indaba 2018** : Accepted Student Research Presenter
- **TEDxPICT 2017** : Lead Operations and Curation
- **PICT IEEE Student Branch** : Android App Development Team and Volunteer