

ANISHA GUNJAL

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EDUCATION

Pune Institute of Computer Technology

Bachelor of Engineering in Computer, GPA: **3.86** / **4.0** (First Class with Distinction)

University of Pune

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 Identification 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