

## SRIPAD JOSHI

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### WORK EXPERIENCE

06/2020 - present

#### **Machine Learning Engineer, Onward Assist, Hyderabad**

##### Responsibilities:

- Built an AI tool for Nottingham scoring to assess breast cancer grade on whole slide images using Computer vision.
- Built a full-fledged application for post knee surgery rehabilitation assistance using posture estimation.
- Built and deployed a tool to detect masses and microcalcifications in mammogram images as well as severity classification of patients based on detected lesion's features.
- Developed a tool for mitosis detection in breast cancer histology microscope images to assist pathologists with mitosis grading.
- Built a python based tool to automatically annotate medical case report forms. Used LSTM and seq2seq modeling.

01/2020 - 06/2020

#### **Data Science Research Intern, Onward Assist, Hyderabad**

##### Responsibilities

- Leveraged self-supervised learning to the histopathology domain using simCLR model and studied its viability.
- Worked on Covid-19 cases spatiotemporal analysis tool. The tool features include forecasting Covid-19 cases, infection risk calculation at a given location.
- Built a survival analysis model using genomic and clinical data of colorectal cancer patients. Used CoxPasnet model for the analysis.

05/2019 – 07/2019

#### **Data Science Intern, Cognitive Science Lab, IIIT Hyderabad**

##### Responsibilities:

- Built an image classification model to identify rice plant leaf diseases.
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### PUBLICATIONS AND POSTER PRESENTATIONS

#### **Deep Learning Based Mitoses Recognition and Concordance study with Pathologists - Pathvision2020 (poster presentation)**

Link-[https://digitalpathologyassociation.org/\\_data/media/351/10082020-022720.pdf](https://digitalpathologyassociation.org/_data/media/351/10082020-022720.pdf)

**Agriculture Monitoring System Based on Wireless Sensory Network**  
Intellectual property India, Application number - 201941046017

**Optimal Deep Learning Model to Identify the Development of Pomegranate fruits in orchard**  
IJITEE vol-9 issue-3

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## EDUCATION

2016 - 2020

### **Bachelor of Technology - Computer Science and Engineering**

ICFAI Foundation for Higher Education - Hyderabad

CGPA - 9.55/10

2014 - 2016

### **Intermediate - Maths, Physics, Chemistry(MPC)**

Dr. RLR Junior college, Zaheerabad.

Percentage - 94

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## PROJECTS

### **Fruit Maturity Stage Detection**

Implemented a unique pipeline of object detection and classification to efficiently identify the maturity stage of fruits in orchards. Used YOLO v3 for detection.

### **Student Companion**

Developed an android application for college requirements. Features included were notes sharing, scheduling reminders for classes, and a global chat to connect students with similar research interests.

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## SKILLS

- Python (NumPy, scikit-learn, OpenCV, scikit-image, Keras, Tensorflow, PyTorch)
- C
- C++
- MATLAB
- C#
- Java
- MySQL
- HTML/CSS/JavaScript/PHP
- Android Development

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## ADDITIONAL INFORMATION

- Won Hackathon during Impulse 2k19, a technology symposium at IFHE Hyderabad.
- Delivered a seminar on unsupervised machine learning techniques at IFHE Hyderabad.
- Participate in the workshop at Nokia Labs, Bengaluru for the Nokia-IEEE university collaboration program.
- Proficient in English, Hindi, Telugu, and Marathi languages.