

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, IIT 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

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

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

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.

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.