

# Jyotika Yadav

Computer Vision - Machine Learning - Deep Learning

☎ (+91) 8318720134 | ✉ jyotikayadav024@gmail.com | 🏠 jay4jyotika.github.io | 📺 jay4jyotika | 📄 jyotikayadav

## Education

### Indian Institute of Information Technology Kalyani

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Cum. GPA: 9.0

Kalyani, Nadia, West Bengal

Aug. 2017 - Jul. 2021 (expected)

## Work Experience

### SigTuple Technologies

AI ENGINEER

Bangalore

Jun. 2021 - Present

- Responsible for rewriting and refactoring a project's models and prediction pipeline end-to-end, reducing analysis time 10 folds
- Helped in FDA Approval process of Shonit - blood analyser, including data analysis, document preparation and priority bug and request handling
- Worked with IIT Delhi Professor on research for a new project.
- Everyday work included working with Python, Pytorch, OpenCV, and data analysis tools

DATA SCIENCE INTERN

Nov. 2020 - May 2021

- Identification and classification of different types of blood cell units from a blood sample slide.
- Containerizing and deploying using Docker and Kubernetes.

### SuperBolter Pvt. Ltd.

COMPUTER VISION INTERN

Apr. 2020 - Jun. 2020

- Detection of furniture from a room image and finding similar images for the detected furniture
- This helps the user to send a picture of a room and find the product of choice from the company catalog

### Logyana Solutions

IMAGE PROCESSING INTERN

Feb. 2020

- Worked on document images to extract selective information from the document image form
- Created executable application for the purpose

## Skills and Interests

**General interest** Computer Vision, Deep Learning

**Language** Python, C, C++, JavaScript, Java, Bash, SQL, HTML5, CSS

**Machine Learning** Pytorch, Keras, Tensorflow, FastAI, OpenCV, Scikit-Image, Scikit-Learn, Pandas, NLTK

**Others** Git, Docker, Kubernetes, PyGame, Selenium, PyQt, SciPy, Alexa Skill

## Projects

### Virtual Tourist Guide for Government of Goa

DEEP LEARNING, FLUTTER, FASTAPI, KUBERNETES

Mar. 2020 - Aug. 2020

- Recognize monuments and landmarks of Goa from clicked image using the app
- Created REST API using FastAPI, containerized the app using docker and deployed the app on a Kubernetes cluster hosted on KubeSail

### Correction of annotation affected words in document images

IMAGE PROCESSING, NATURAL LANGUAGE PROCESSING

Jul. 2019 - Jun. 2020

- Localizes and removes annotation from a document image, uses inpainting to retrieve the text back (pre-OCR document correction)
- Spell checks and grammar checks the OCR output (post-OCR correction)

### AI Powered Wearable To Assist The Visually Impaired

MACHINE LEARNING

Mar. 2019

- AI based wearable device to helps visually impaired to know their surrounding and communicate with it (using Alexa Skill)
- Takes images from camera, tells what is around and also can recognize faces of the people you know (from users contact's images)

## Achievements and Responsibilities

**Winner** Smart India Hackathon, 2020

**Best Hardware Hack** Hack-A-BIT Hackathon, BIT Mesra, 2018

**Founding Member** Free and Open Source Community IIIT Kalyani