

# Shashank Sai Sangu

Senior Software Engineer - AI/ML

Experienced Software Engineer with a demonstrated history of working in the health, wellness and fitness industry.



✉ sangushashanksai@gmail.com

📍 Bengaluru, India

🐙 github.com/shashanksangu

📞 9849625699

🌐 linkedin.com/in/shashanksangu

## WORK EXPERIENCE

### Senior Software Engineer - AI/ML Wellnesys Technologies Private Limited

09/2021 - Present Bengaluru

On a global mission to integrate yoga into everyone's daily lifestyle by leveraging cutting-edge technologies. Created YogiFi - Smart Yoga Mat

#### Achievements/Tasks

- Developed an API using a Framework FastAPI
- Designed and Implemented a custom approach for Model Detection - lead to increase in accuracy & reduced the time taken in Real-time Application
- Created a custom Framework for detecting Human Activity using Computer Vision

### Software Engineer - AI Applications Wellnesys Technologies Private Limited

06/2019 - 08/2021 Bengaluru

#### Achievements/Tasks

- Developing Application Software on YogiFi using cutting-edge technologies like Deep Learning, Machine Learning & Python
- Managing Google Cloud Platform Services for YogiFi - Storage, Compute Engine & AI Platform
- Focused on designing & development of better User Experience for the YogiFi Mat
- Designing and Developing Customized Algorithms while solving the problems
- Developing custom methods for Human Posture Recognition
- Developed Applications on Embedded Systems - RPi, CM3

### Student Internship Wellnesys Technologies Private Limited

12/2018 - 04/2019 Bengaluru

#### Achievements/Tasks

- Fused Wearable and the YogiFi data to give accurate Feedback
- Applied K-Means Clustering Algorithm and tweaked it for customized usage on YogiFi
- Integrated Mobile App Communication with YogiFi via BLE
- Developed Automation Scripts in Python

## SKILLS

Python Java C Dart Flutter

Deep Learning Machine Learning

FastAPI/ Flask/ Django Computer Vision

Web Development Google Cloud Azure Cloud

PyTorch TensorFlow Keras

## EDUCATION

### Bachelor of Technology G.V.P. College of Engineering (Autonomous) / J.N.T.U. Kakinada

07/2015 - 04/2019

Grade - 7.92/10

#### Course

- Information Technology

### 12th Grade MP & EV English Medium School / C.B.S.E.

2013 - 2015

Percentage - 68/100

#### Courses

- Mathematics
- Physics
- Chemistry
- Informatics Practices

### 10th Grade Sri Chaitanya Vidya Niketan / C.B.S.E.

2012 - 2013

Grade - 8.8/10

#### Courses

- Mathematics
- Science
- Social Science

## ACHIEVEMENTS

### Fintech Valley Finathon (Hackathon) - 2nd Prize

36 Hour Hackathon - Created a Web-based Application - Using Digital Chest X-Ray for detecting Pneumonia in the Lungs

### PADI Discover Scuba Diving Program (10/2021)

Scuba Diving Program organized by PADI Worldwide

## PROJECTS

### YogiFi - Smart Yoga Mat

- Giving Realtime Feedback on yoga postures using Deep Learning & Machine Learning
- Detecting Upper Body Postures using Computer Vision
- Created Custom Algorithms to solve Real-time Problems

### Encrypting Data

- Encryption and Decryption of live feed from CCTV using rules of Cellular Automata

### Classification of Dogs & Cats

- Dog - Cat Image Classification using CNN (Convolutional Neural Network) & Transfer Learning - TensorFlow, Keras, Python

### Classification of Ants

- Normal Ant & Fire Ant - Image Classification using CNN in Deep Learning - Transfer Learning - TensorFlow, Keras, Python

## PUBLICATIONS

PATENT - 202041053954

### SYSTEM AND METHOD TO TRACK AND MONITOR HUMAN ACTIVITIES TO GENERATE FEEDBACK AND PROVIDE TRAINING

Author(s)

Sankar Dasiga, Muralidhar Somisetty, Gautham Sriprakash, Shashank Sai Sangu

Date of Filing:

26-02-2021

Developed a System & Method to track one or more Human Activities which includes Activity Input Module Configured to received Plurality of Inputs

PATENT - 202041000701

### SYSTEM AND METHOD FOR PERFORMANCE EVALUATION OF AN EXERCISE PERFORMED BY A USER

Author(s)

Pallavi Manohar, Pranav Kanuparthi, Shashank Sai Sangu, Muralidhar Somisetty

Date of Publication:

27-11-2020

Developed a System and Method for Performance Evaluation of an Exercise Performed by the user which includes an input subsystem configured to receive User Data from the User

## ORGANIZATIONS

### Wellnesys Technologies Private Limited (06/2019 - Present)

Senior Software Engineer - AI/ML

## CERTIFICATES

### Deep Learning Nano Degree Program (09/2020)

<https://confirm.udacity.com/VQZKN5EW>

### Python (Basic) (09/2020)

<https://www.hackerrank.com/certificates/73755c9858d1>

### Systems Thinking for Strategic Initiatives (08/2020)

Institute of Inspiring Innovation

### Python 101 (08/2018)

<https://courses.cognitiveclass.ai/certificates/7c9c3c0da07741078734534a78cb33db>

### Python 101 for Data Science (08/2018)

<https://courses.cognitiveclass.ai/certificates/55da57d03fce44d0bbcd76886241540>

### Introduction to Python for Data Science (12/2016)

<https://courses.edx.org/certificates/d478ce8af7c14ada9172798ceed9009a>

## VOLUNTEER EXPERIENCE

### N.S.S. Volunteer

Ministry of Youth Affaires and Sports, Govt. of India

2016 - 2018

Visakhapatnam

National Service Scheme

Tasks/Achievements

- Volunteered 120 hours of service under Regular Activities  
Conducted by NSS Unit GVPCE (A) (Unit No. 2)

### Rotaractor

Rotaract - Rotary Club Partner

2016 - 2017

Visakhapatnam

Rotaract Club of GVPCE (A)

Tasks/Achievements

- Volunteered for Teaching Programs Organized by Rotaract Club

## INTERESTS

Traveling

Video Games

Cooking

Movies

Artificial Intelligence

Music

Automation

## LANGUAGES

English

Full Professional Proficiency

Hindi

Professional Working Proficiency

Telugu

Professional Working Proficiency