Rudramani Singha

rudramanisingha.com | +91 9167435345

EDUCATION

BE, IT

University of Mumbai 2018 | Present

AS AND A LEVELS

University of Cambridge 2016 | 2018

IGCSE

University of Cambridge 2010 | 2016

SPECIALIZATION

CERTIFICATIONS

(Verifiable @ LinkedIn)

TensorFlow in practice
AWS Fundamentals
Deep Learning
TensorFlow: Data and deployment
Applied Data Science with Python
Machine Learning on GCP
Certified Microsoft Office Specialist

PROGRAMMING

Languages:

Python • Javascript • C++ • SQL Frameworks/Tools: Tensorflow • Keras • Pytorch Flask • DeepLearning • Pandas

Other skills:

SUPPLEMENTARY

VOLUNTEER EXPERIENCE

Blender 3D • AutoCAD • Photoshop

(Details @ LinkedIn)

Head of Technical @ IEEE-RGIT Technical Lead @ ABIT RGIT Operations Manager & Technical Trainer @ Codecell RGIT Bronze Standard Member @ IAYP

PATENTS

(Details@rudramanisingha.com/patents)
202121031007 • Jul, 2021
Motor Intent Prediction technique
using RNN + EEG
202111034856 • Aug, 2021
Realtime face liveness detection using
texture and behavioural analysis

202111043497 • Oct, 2021 Advanced OCR engine for identity extraction using computer vision and language processing

EXPERIENCE

VAO | Machine Learning Intern

Dec 2021 - Present | San Francisco

• Working directly under Dr. Valentina Pedoia and Dr. Davide Onofrio to engineer NLP models focused on improving supply chain predictability.

NEUROVISION | Founder & CEO

Jun 2021 - Present | Mumbai

- We are a brain-machine interface startup that is developing early warning detection systems for epileptic patients.
- I am responsible for operations, finance, and most importantly, development of solutions for the customers.

AZYO | Machine Learning Consultant

Mar 2021 - Dec 2021 | San Diego

- Designed and implemented the authentication system using facial recognition and anti-spoofing countermeasures.
- Using gesture and behaviour recognition, led the development of sign language recognition & proctoring system.

CSKAA | Machine Learning Engineer - Intern

Oct 2020 - Feb 2021 | New Delhi

- Refactored the entire OCR pipeline and integrated it with Google Vision API for up to 30% faster performance and better accuracy.
- Created Regex post processing engine to support 11+ different document formats.

RESEARCH

RGIT - ALGORITHM DESIGN LAB | Undergraduate Researcher

Jan 2021 – Jul 2021 | Mumbai

Worked with Prof Nilesh Rathod to create a tool which helps in preliminary diagnosis of health index by learning from user's movements.

RGIT - SOFT. COMPUTING LAB | UNDERGRADUATE RESEARCHER

Jun 2020 - Dec 2020 | Mumbai

Led the research and development of an end-to-end over-speed detection + license plate recognition system with Dr. Sunil Wankhade.

PROJECTS

(Projects available @ rudramanisingha.com)

2021 Diminished reality based realtime object remover

2020 YOLOv5 + GCP for Gesture Recognition on Raspberry pi

2020 Intent based Chatbot module with BERT for customer support.

PUBLICATIONS

(Preprint @ rudramanisingha.com/papers)

- [1] R. G. Singha, M. Lad, A. Rohekar, and S. Wankhade. Vehicle speed detection using multi-branch networks from temporal image pairs. 4th International Conference on Smart Systems and Inventive Technology (ICSSIT 2022), in press.
- [2] R. G. Singha, M. Lad, G. M. Shipurkar, and N. Rathod. Dynamic pose diagnosis with blazepose and lstm for spinal dysfunction risk estimation. 4th International Conference on Smart Systems and Inventive Technology (ICSSIT 2022), in press.