

www.akankshakale.com | akanksha.kale@outlook.com

FDUCATION

UNIVERSITY OF PUNE

B-ENG IN COMPUTER SCIENCE

June 2019 | Pune, India M.I.T College of Engineering Magna Cum Laude Cum. GPA: 8.37/10.00

NOWROSJEE WADIA COLLEGE

MAJOR IN COMPUTER SCIENCE

May 2015 | Pune, India Top 1% in Class

Cum. Percentage: 99.00%

LINKS

Github:// akankshaakale LinkedIn:// akankshaakale

COURSEWORK

UNDERGRADUATE

Advanced Data Structures

(Teaching Asst 2x)

Computer Graphics + Practicum Machine Learning

AI & Robotics + Practicum Human Computer Interface

High Performance Computing

Embedded Systems and IOT + Practicum

Data Analytics

Data Mining and Warehousing

SKILLS

PROGRAMMING

Over 5000 lines:

Python • TensorFlow • OpenCV

PyTorch • Java • Javascript

MATLAB • Android • Arduino(C)

Over 1000 lines:

 ${\sf SpringBoot} \bullet {\sf C++} \bullet {\sf LAT}_{\sf E} {\sf X} \bullet {\sf Shell}$

Familiar:

Angular • MySQL • Selenium Git • AWS • Jupyter • JIRA

CONTACT

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EXPERIENCE

DELOITTE USI | FULL-STACK DEVELOPER - DC ANALYST

Jan 2020 - Present | Mumbai, India

- Working on **State** of **Michigan** Integrated Eligibility Project as a **developer**-wrote and reviewed code for JS using **Angular, Spring-boot, Shell**.
- Won an award amongst 1 in 500 folks for efficiently automating the framework and batches using **Shell**, **Maven**, **Ant scripts**

PERSISTENT SYSTEMS | RESEARCH INTERN

Sep 2017- June 2018 | Pune, India

- Developed an obstacle detection-avoidance algorithm hosted on NVIDIA
 Jetson TX2, ZED Stereo Camera. The Reinforcement Learning algorithm was
 built using OpenAl Gym, ROS.
- Used Neural Network based **Q-Learning technique** to control action-states

June 2018- June 2019 | Pune, India

Developed a mind- controlled communication System for **Quadriplegic and Differently abled** individuals using 5-channel EEG headset,4-layer **LSTM** network for 'thought' data preprocessed using **Principal Component Analysis**

RESEARCH

M.I.T ROBOTICS LAB | HEAD OF COMPUTING

Jan 2016 - April 2018 | Pune, IN

- Led the Development of Autonomous Robots, which learn from imagery inputs to plan robot trajectories in obstacle course for **ABU Robocon, Asia Pacific**.
- The 1st ever team in Robocon to achieve the task using Image Processing

AWARDS

2020	1 in 500	Deloitte Spot Award for Automation
2019	National	KPIT Sparkle Innovation Challenge '19 Finalist
2019	3 rd /250	Smart India Hackthon 2019, IIT BHU
2018	International	Singapore India Hackathon, NTU Singapore - Runners Up
2018	1 st /150	Smart India Hackthon 2018, IIT BHU

PROJECTS

MONITORING PARKING SPACES | NTU, SINGAPORE

- Built a real-time system using Google GeoTagging, **HOG feature extraction**, **Faster R-CNN** for vehicle detection & made a **dynamic area-division** algorithm
- •. Eliminated the need of existing sensor-based systems by automating restructuring of grids & used **Audio QR** for authentication hence nullifying cost, saving configuration & scanning-time over RFID.
- Rewarded by Prime Minister of India & Education Minister of Singapore.

PUBLICATIONS

Patents

- [1] A System and Method to Perform User Activity Using an Electroencephalogram **Application No. : 201921011129**
- [2] A System and Method for Self-Adapting Virtual Structuring Of Unstructured Parking in Real-Time **Application No.: 201921051068**

Papers

[1] P. Kamble, A.Kale, A.Relekar Recurrent Neural Networks on EEG based Classification for Brain Computer Interface. International Journal of Advances in Electronics and Computer Science, Sep.-2019 [link]