Akanksha Kale

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EDUCATION

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:
SpringBoot• C++ • LaTeX• Shell
Familiar:
Angular • MySQL • Selenium
Git • AWS • Jupyter • JIRA

CONTACT

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Last Updated on: 2nd November 2020

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 **OpenAI 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	3rd/250	Smart India Hackthon 2019, IIT BHU
2018	International	Singapore India Hackathon, NTU Singapore - Runners Up
2018	1st/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]**