

Akanksha Kale

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EDUCATION

Stony Brook University

Master of Science, Computer Science

Stony Brook, New York

Aug 2021 – Dec 2022

University of Pune

Bachelor of Engineering, Computer Science : GPA 8.4/10

Pune, India

May 2019

TECHNICAL SKILLS

Languages: Java, Python, SQL, LaTeX, MATLAB, C, C++, JavaScript, Shell, Angular

Domains: Full Stack Development, Deep Learning, Data Science, Computer Vision

Technologies: OpenCV, PyTorch, Tensorflow, Spring, MongoDB, AWS

Tools: Jupyter Notebook, Git, Bitbucket, Selenium, JIRA, Arduino, Android Studio

EXPERIENCE

Computer Science Department, SBU

Graduate TA — Course: Computer Science Principles

Stony Brook, New York

Aug 2021 – Ongoing

- Assist the Professor with grading, formulating assignments, homework for 190+ students and solving their queries.

Deloitte Management Consulting

Analyst — Systems Engineering

Mumbai, India

Dec 2019 – July 2021

- Enhanced an Automated Decision Engine for Eligibility Determination built on Spring framework for a database of 6M beneficiaries .
- Proposed, led and delivered a framework to generate Selenium scripts to automate driver flow of 758 web pages that acquired a revenue worth 11M \$ from the client.
- Engineered an auto-invoking batch script in Shell for Bamboo server that conserved manual effort by 175%

Persistent Systems

Research Intern — Brain Computer Interface with EEG | [\[Research Paper\]](#)

Pune, India

June 2018- June 2019

- Discovered a mind-controlled communication system for Quadriplegic individuals using 5-channel EEG headset and 4-layer LSTM network.
- Demonstrated a streamlined model on 323 user actions, 100+ different users with a response time of 2 seconds with an accuracy of 93%.
- Patent:** A System and Method for Dynamic Virtual Structuring Of Parkings in Real-Time [\[Application#: 201921051068\]](#)

RESEARCH PROJECTS AND PUBLICATIONS

M.I.T Robotics Lab

Jan 2016- April 2018

- Headed the Development of Autonomous Robots that learn to plan trajectories from video feed and Infrared Sensors in an obstacle course for ABU Robocon, Asia Pacific
- Succeeded as the 1st ever team in ABU Robocon 18' to navigate the course in 21 seconds using Image Processing

Monitoring Parking Spaces | NTU, Singapore

Nov 2018

- 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
- Patent:** A System and Method to Perform User Activity Using an Electroencephalogram [\[Application #: 201921011129\]](#)

AWARDS AND ACHIEVEMENTS

- GPS Game Changer Award, Deloitte | 1 in 5000** | For singlehandedly tailoring a custom framework alongside regular deliverables and acquiring additional revenue from the client | 2021
- Spot Award, Deloitte | 1 in 1000** | For efficient, early code delivery with 0 defects in 3 consecutive sprints | 2020
- KPIT Sparkle Innovation Challenge | Finalist** | For showcasing an innovative idea on Vehicle Authentication with brain's EEG signals that amplifies a layer of security in the machine | 2019
- Singapore India Hackathon, NTU Singapore | 3rd/50** | Represented India and awarded the 3rd prize for a novel 0 cost solution for parking monitoring | 2019
- Smart India Hackthon, IIT BHU | Winner** | Predicted water scarcity, crop productivity and broadcasted it with a multilingual app to equip 8 million farmers across the country | 2018