PARTHIV PRAVINBHAI AKBARI

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EDUCATION

B. Tech Uka Tarsadia University, Computer Engineering   June 2020
         CGPA: 8.65 (Till 6th semester)

TECHNICAL SKILL

Machine Learning: TensorFlow, scikit-learn, Google Cloud ML Engine.
Image Processing: MATLAB, Octave, OpenCV.
Programming Skill: Python, Embedded C, C, C#, Java.
Cloud and Distributed Computing: Docker, GCP, AWS.

PROJECTS

ASRS (Autonomous Storage Retrieval System):   IoT, AWS, ML/AI
- ➔ A system to place right material at right place at right time in industrial assembly line.
- ➔ System makes use of AGV (Automate guided vehicle). User can schedule the AGV to pick up and deliver the material by remote UI.
- ➔ AGV follows the path planning approach instead of traditional path following approach. When delivery is scheduled to any AGV, path is planned from pickup to drop point. IPS (Indoor Positioning System) is created to make AGVs aware of their current location as well as pickup and drop point.
- ➔ A backend built on AWS services provides users seamless experience to interact with system and OTA (Over The Air) updates.
- ➔ Cloud computing capabilities extends the supports for remote debugging of whole system as well as data analysis of the deliveries.

ACCIDENT PRONE DEVICE: IoT, Firebase
- ➔ An IoT device which tracks the condition of automobile using different sensors. On detection of accident it sends the SOS to ambulance and number selected by user.

OCR COMPILER: Python Flask, ML
- ➔ An idea to get the output of python program by just taking snapshot of it. Working on Machine Learning model to recognize handwritten text.

KEYBOARDLESS KYC: Python Flask, ZAPPA, AWS
- ➔ A simple but unique idea to extract the details useful for KYC (name, Gender, Date of Birth, Aadhar number) just by taking the snap of Aadhar card (Indian Identity Proof). Implemented as Serverless architecture with AWS.

MEANING SIMILARITY MEASUREMENT B/W TWO STATEMENT (MSMTS):
- ➔ An **Artificial Intelligence-based** system to detect the similarity between meanings of 2 sentences. Currently working with TensorFlow text embedding to detect the similarity. This project is under development phase.

INTERNSHIPS

Innoquad Solutions   ML/AI Intern (April, 2019)
➔ Applied different filtering techniques on test data and tried to find some optimal result from it. Also designed one regression model to detect meaning probability from two different sentences. For "OCR Compiler" project, using TensorFlow tried to recognize a handwritten image.

Sparks to Ideas, Ahmadabad, India   Web Development Intern (May, 2018)
➔ Worked on web development technologies which included HTML CSS, Bootstrap, JavaScript, PHP, jQuery, AJAX.

PROFESSIONAL TRAINING AND ACCOMPLISHMENTS

Workshop
Participated in 2-days workshop on NodeJS in Uka Tarsadia University and contributed total 16 hours on it.

Machine Learning Certificate from Andrew NG, Stanford University
After completion of this course I designed one ML model which helped me to determine the exact location of our AGV in ASRS project.

COMPETITIONS

Gujarat Industrial Hackathon   September, 2018
"ASRS" and "Accident Prone Device", both projects were selected for finals and worked continuously for 36 – hours to make one project.

Cyclone Techfest   2017
We won the title of an event name as "Number Strom".