**Pradnya Raghavendra Sangoram**

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**EDUCATION**

**Pace University, Seidenberg School of Computer Science and Information Systems**  **New York, NY**

Master of Science (M.S.) in Computer Science| **Concentration:** Artificial Intelligence | **GPA:** 3.35 May 2021

**Visvesvaraya Technological University, B.V. Bhoomaraddi College of Engineering & Technology** **Karnataka, India**

Bachelor of Engineering (B.E.) in Automation & Robotics June 2017

**RELEVANT COURSEWORK**

Computer Vision | Machine Learning | Pattern Recognition | Artificial Intelligence | Deep Learning | Algorithms for Data Science | Enterprise intelligence development | Image processing

**TECHNICAL SKILLS**

**Programming Languages:** C, Java, Python, MATLAB, Dart, HTML, CSS

**Design stimulation software:** Visual Studio Code, Atom, Jira, Git, Android Studio, MS office

**Frameworks:** Flutter, TensorFlow/ Google Colbs,

**Database:** SQL, Firebase

**Certification:** Certification on Data Science, Inventateq

**ACADEMIC PROJECTS**

**Audio visual emotion recognition** August 2020-December 2020

* Built a machine learning method capable of recognizing feelings in the same way as humans do and has a lot of potential applications in Human-Computer Interaction (HCI), human-assistive technologies and online education, among others
* “Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS)”, a dataset of images containing 24 professional actors was used to train two feature extractors, one CNN model (for video) and second, RNN model (for audio)
* Voting method was used to combining both feature extractor results to obtain an output.

**Chords-Virtual Collaboration tool** August 2020 – Present

* Developed a web collaboration tool for professionals working remotely to communicate virtually during the pandemic
* Worked on technologies like reactjs, mongoDB, firebase, database to create the web application. We adapted for agile methodology.

**Machine Learning Model for Medical Image Segmentation** March 2020-May 2020

* Collaborated in a team of two to develop a method that can automatically detect the Osteoarthritis affected bone area from a knee MRI image based on image segmentation concept.
* Prepared data for model training by generating binary mask for each segmented image using MATLAB program. Trained a machine learning convolutional neural network model called U-Net to perform bone segmentation on 3D knee MRI using Google-colabs, resulted in automatic detection of the affected bone aera accurately.

**Flexible Robot Cell** January 2017 – May 2017

* Collaborated in a team of five to create the design and fabrication of a robot and conveyor belt system to automate the process of sorting metal pieces according to shape using a machine vision algorithm, reducing production time and manpower.
* Programmed ABB Robot for palletization and developed image processing program for part detection and part matching using Python.
* Performed verification and validation, testing, documentation, assembly of conveyor system, delta robot, and whole robot cell, creating a solution that enables robots to sort components in synchronization with the moving conveyer belt.

**EXPERIENCE**

**Accenture Solutions Pvt. Ltd.** **Bangalore, India**

Application Development AssociateJanuary 2018 – June 2018

* Coded an automation testing program using Selenium for functional testing of the desktop applications.

**LEADERSHIP**

**KLE society’s Robot Makers Hub,** **B.V. Bhoomaraddi College of engineering and technology** **Karnataka, India**

Audit and Co-founder April 2013 – June 2017

* Encouraged students to work on innovative technical projects and ideas to gain knowledge and learn new technologies and their practical application, and as a result we were able to provide a separate well-equipped lab facility for the members of the club to work on their technical Project ideas.
* Managed the funds and equipment provided to the club to maintain the lab facility quality.
* Served as the active member of the KLE society’s Robot-Maker Hub; participated and organized University level robotics competitions.