

Pradnya Raghavendra Sangoram

Jersey City, NJ 07306 | pradnya.r.sangoram@pace.edu | (551) 2632596 | [LinkedIn](#) | [Portfolio](#) | [Github](#)

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:** 3.49

December 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 | Robotics

TECHNICAL SKILLS

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

Data Science Techniques: Image Processing | Natural language processing (NLP) | Text Summarization and Classification | Data Visualization

Software and Frameworks: Visual Studio Code, Jira, Excel, Tableau, Google cloud, IBM Watson studio, GitHub, Docker, TensorFlow / Google-Colab

Database: SQL

Certification: Certification on Data Science, Inventateq

ACADEMIC PROJECTS

Chords-Virtual Collaboration tool

August 2020 – May 2021

- Developed a web collaboration tool using Reactjs, MongoDB, and Firebase database for professionals working remotely to communicate virtually during the pandemic, implementing Agile methodology.

Audio visual emotion recognition

August 2020 – December 2020

- Built a machine learning method capable of recognizing feelings similarly to humans, with potential applications in Human-Computer Interaction (HCI), human-assistive technologies, and online education, among others.
- Trained two feature extractors, (CNN model for video and RNN model for audio), on a dataset of images containing 24 professional actors, "Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS)" using python.
- Combined both feature extractor results using voting method to obtain an output.

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-colab, resulted in automatic detection of the affected bone area 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 conveyor belt.

EXPERIENCE

Accenture Solutions Pvt. Ltd., Bangalore, India, Application Development Associate

January 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, Co-founder

April 2013 – June 2017