

ANSHU PRIYA

Indian Institute of Technology, Jodhpur – 342037

@ priya.1@iitj.ac.in (+91) 6350060520 in Anshupriya Anshupriya

INTERNSHIP

Research and Innovation Lab - TCS

Anatomical landmark detection in 3D CT scan

May 2020 – July 2020

- Generated heatmaps for all 26 vertebrae from their coordinates and provided isotropic spacing of 2mm to extend its physical dimension
- Trained on 3D-Unet network to detect the landmark on CT scan and got 9.75mm mean error on testing CT scan

MANAS LAB | IIT Mandi | Guide: Dr. Aditya Nigam

Liver Tumor Segmentation

May 2019 – July 2019

- Built a segmentation network inspired from UNet having an Hourglass module for its bottleneck
- Achieved state-of-the-art results (Dice 0.98 for Liver and 0.93 for Liver Tumor) on publicly available datasets of MICCAI 2017 LITS

Brain Tumor Segmentation

May 2019

- Build a machine learning algorithm in python that classifies whether a patient has heart disease or not
- Used 14 measuring features like max heart rate, chest pain type, age, sex etc in the publicly available datasets on driven data

PROJECTS

IIT Jodhpur

Action Recognition in kids | Guide: Dr. Rajendra Nagar

Feb 2020 – July 2020

- Design an algorithm to recognize the various actions of kids like, cruising, crawling, jumping and running
- Used various deep learning approaches for different input data (skeletal data, dynamic images and RGB videos)

Sports Equipment Management System | Self Project

Aug 2019 – Dec 2019

- Developed a software system for proper allocation and management of the hostel's sports equipment
- Used C++14 for frontend and SQL for backend also used MySQL DB on Amazon Web Services

Pathologic Myopia Classification | Guide: Dr. Sandeep Kr.

Feb 2019 – April 2019

- Classified the fundus photos from PM patients into three labels Pathological Myopia, High Myopia and Normal labels
- Achieved 95% accuracy by applying data augmentation on publicly available datasets of MICCAI 2019 PALM with base model ResNet

Bus Management System | Self Project

Jul 2018 – Dec 2018

- Developed a full-featured command line interface application for managing bus ticket booking/canceling
- Used C++14 for frontend and file management system for data handling

EDUCATION

IIT Jodhpur

Undergraduate

Aug 2018 – May 2021 (Expected)

- B.Tech | Final Year | Electrical Engineering | Current CGPA: 8/10

JNV Jamui

Senior Secondary School

July 2009 – April 2016

- Class XII | CBSE - 2016 | 93.0/100
- Class X | CBSE - 2014 | 9.2/10

COURSES

- Data Structures and Algorithms
- Database
- Object Oriented programming
- Machine Learning by Andrew NG
- CS231n (Spring 2017 Stanford Academy)
- Probability Statistics and Random Processes
- Linear Algebra and Calculus
- Complex Analysis and Differential Equation

SKILLS

Languages and Libraries



EXTRA-CURRICULARS

- Assistant Head** | Counselling Service 2019, IIT Jodhpur
- Student Guide** | Counselling Service 2018
- Volunteer** | International Workshop on Applied Deep Learning 2019, IIT Mandi
- Secured 2nd position at district level in 12th CBSE Board and 2nd position in NEST 2014 at school level
- Represented Patna Region in State Level Chess Competition
- Represented IIT Jodhpur Basketball team in 52nd and 53rd Inter-IIT Sports Meet