

SAGNNIK BISWAS

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🌐 [Sagnnik Biswas](#)

🔗 [Sagnnik](#)

EDUCATION

Manipal Institute of Technology

BTech - Electronics and Communication - CGPA - 8.06 (present)

October 2020 – June 2024

Manipal, Karnataka, India

Research Interest

Computer Vision, Robotics, Adversarial Networks

Developing Robotics Perception, Adversarial Networks and Unsupervised learning techniques piques my interest

Technical Skills

- Deep Learning
- Robotics
- Representation Learning
- Contrastive Learning
- Computer Vision
- CNNs
- GANS

PROJECTS

Understanding Autoencoders 🔗 | Tensorflow

March 2022

- Representational Learning using ANN and CNN layers.
- Reducing noise in Data.

ANN from scratch 🔗 | Python - NumPy

April 2022

- Creating personal ANN library.
- Hand-Coded Backprop and Loss Function.

Rock Paper Scissors 🔗 | Tensorflow Object Detection - OpenCV

June 2022

- Includes both trained CNN and Pretrained Object Detection Model.
- User can play Rock-Paper-Scissors with the computer real time.

DCGAN 🔗 | Pytorch

July 2022

- Implementation of DCGAN paper.
- Generating fake images of celebrities.

Pix2Pix 🔗 | Pytorch

August 2022

- Implementation of Pix2Pix paper.
- Implementing on MAP dataset to mask various unnecessary elements in the map view.

Experience

RoboManipal

December 2020 – Present

Electronics Subsystem Member

MIT, Manipal

- Developing and Designing Circuits, CADs.
- Automation of Robots.
- Selected for Nationals in **ABU Robocon, 2022**.
- First place in Circuit Fixer, an event organized by **COEP, Pune**.

TECHNICAL SKILLS

Languages: Python, Java, C, C++

Developer Tools / Frameworks : Tensorflow, Pytorch, NumPy, Matplotlib, OpenCV, Pandas, Scikit-Learn, Arduino, EagleCAD, MatLab

Additional Skills : PCB designing, Assembly Language Coding, Verilog

EXTRACURRICULAR

OpenCV workshop

December 2021

Co-Presenter

MIT, Manipal

- Working out live demos.

CERTIFICATIONS

- Machine Learning Specialization - Coursera
- Deep Learning Specialization - Coursera
- GANS Specialization - Coursera