

SAGNNIK BISWAS

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Saggnik Biswas

Saggnik

EDUCATION

Manipal Institute of Technology

BTech - Electronics and Communication - **CGPA - 8.00** (present)

October 2020 – June 2024

Manipal, Karnataka, India

Research Interest

Deep Learning, Computer Vision, Robotics, Adversarial Networks

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

Domains

- Deep Learning
- NLP
- Representation Learning
- GANS
- Computer Vision
- Robotics

PROJECTS

Google PlayStore ratings | Pytorch, Sklearn, Tensorflow

February 2023

- EDA on the google play store dataset
- Predicting the ratings of the apps

Understanding Autoencoders | Tensorflow

March 2022

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

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 get a clean map view

Finetuning Image Difference Captioning Models | Pytorch

March 2023

- Finding the Difference between two pairs of Images in captions
- Finetuned with CRIPP-VQA Synthetic data

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**.

Research Internship

IIT Kharagpur

December 2022 – Present

- Counterfactual Reasoning in Language and Vision datasets and Image Difference Captioning
- Under the guidance of Asst. Prof. Somak Aditya

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