Rishav Mukherji

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GitHub

in LinkedIn



EDUCATION

BITS-Pilani, K.K. Birla Goa Campus

B.E. ELECTRONICS & COMMUNICATION

Current CGPA - 9.21

PROIECTS _

• Comparative study of Machine Learning techniques in Computer Vision © GitHub 2021

INDEPENDENT PROJECT

Built supervised (**ResNet**), semi-supervised (**Vanilla CNN** with **pseudo labelling**) and unsupervised (**SimCLR**) models to carry out classification on STL-10 dataset and compared their functionality and effectiveness based on various parameters.

• Natural Language Inference and Probing @ GitHub

2021

INDEPENDENT PROJECT

Trained a **BiLSTM** Classifier on SNLI dataset to carry out inference and then analysed the model by carrying out probing based on **POS tags**

• VFormer @ GitHub

2021 - Ongoing

2020 - 2024(Expected)

CLUB PROJECT, SAIDL

A **PyTorch library** which packages implementations of different kinds of **ViTs** and methods to visualize their attention maps, and provides an **easy-to-use API**.

• RoDeO 2021-Ongoing

CLUB PROJECT, ERC

Object detection in robots based on 3D Perception with State Estimation and Localization

Code Synthesis
2022-Ongoing

INDUSTRY PROJECT

Developing a model for carrying out **Code Search**, **Syntax Error Detection** and **Code Repair** on **C** programming language

Developing ML-DL models for IoT-based applications

2022-Ongoing

SUPERVISED PROJECT

Setting up a LoRaWAN based IoT network for emergency messaging system and then using various ML-DL techniques to optimise the network and utilise it for wider purposes

COURSE WORK

ACADEMIC Computer Programming | Linear Algebra | Calculus | Probability & Statistics |

Meta Learning | Control Systems

ONLINE *University of Michigan:* Python 3 Programming Specialization

Stanford University: Machine Learning | **Udacity:** Intro to Deep Learning with PyTorch | **NVIDIA:** Fundamentals of Deep Learning | **DeepLearning.AI:** NLP Specialization | **NVIDIA:** Building Transformer-Based NLP Applications | **Stanford University:** CS231n |

University of Toronto: Visual Perception for Self-Driving Cars

University of Toronto: State Estimation and Localization for Self-Driving Cars

TEACHING EXPERIENCE

Introduction and Applications of Machine Learning

Nov 2021 - Ongoing

SKILLS

PROGRAMMING LANGUAGES Experienced: Python | C++ | C Familiar: Julia | Java

FRAMEWORKS PyTorch | Keras | Scikit-learn | Tensorflow LIBRARIES Numpy | Pandas | OpenCV | Matplotlib

Tools GIT | Arduino IDE

MISCELLANEOUS English | Hindi | Bengali

COMMITTEES _

A non-profit, professional group of motivated individuals based out of BITS Pilani, working on research and application of Artificial Intelligence and Deep Learning.

Electronics and Robotics Club Website

The Electronics and Robotics Club (ERC) of BITS Goa is a diverse group of students with interests ranging from electronics to machine learning to mechanical design.