Rishav Mukherji

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GitHub

in LinkedIn



EDUCATION

BITS-Pilani, K.K. Birla Goa Campus

2020 - 2024(Expected) **B.E. ELECTRONICS & COMMUNICATION**

Current CGPA - 9.424

PROJECTS _

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

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

CLUB PROIECT, 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

Program Synthesis using Julia

2021-Ongoing

CLUB PROJECT, SAIDL

Developing implementations of program synthesis techniques in Julia focusing on systems which synthesise programs for a transformation from a specified grammar given input / output examples of the transformation

COURSE WORK

ACADEMIC

Computer Programming | Linear Algebra | Calculus | Probability & Statistics

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

INSTRUCTOR, CENTER FOR TECHNICAL EDUCATION, BITS GOA WEBSITE

SKILLS

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PROGRAMMING LANGUAGES Experienced: Python | C++ | C Familiar: Julia | Java
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FRAMEWORKS PyTorch | Keras | Scikit-learn | Tensorflow
LIBRARIES Numpy | Pandas | OpenCV | Matplotlib

Tools GIT

LANGUAGES English | Hindi | Bengali

COMMITTEES

Society for Artificial Intelligence and Deep Learning Website

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

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.