

Rishav MUKHERJI

Mumbai/India

rishavm16@gmail.com



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** **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**
- **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

PROGRAMMING LANGUAGES **Experienced:** Python | C++ | C **Familiar:** Julia | Java
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.
- **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.