Siddhesh Sharad Kashid

Email : siddhesh.sharadk.cd.phy20@iitbhu.ac.in
Mobile : +91-908-238-4347

Linkedin: linkedin.com/in/siddhesh-kashid-128636214
Github: https://github.com/Siddhesh-Kashid

EDUCATION

- **Indian Institute of Technology (BHU) Varanasi**
  Currently pursuing BTech + MTech in Engineering Physics; CGPA: 8.99/10
  Varanasi, India
  6th semester, March 2023

- **Navneet Jr. College**
  HSC (Class 12): 72.77%
  Mumbai, India
  June 2019

- **St. Xavier's High School**
  HSC (Class 10): 91.00%
  Mumbai, India
  June 2017

RELEVANT COURSES

- **Machine Learning**
  by Stanford University

- **Introduction to Deep Learnin[MIT 6.s191]**
  by Massachusetts Institute of Technology

- **Computational Physics**
  IIT BHU, Varanasi

- **Statistical Physics**
  IIT BHU, Varanasi

SKILLS SUMMARY

- **Languages**: Python, Java, C, Matlab
- **Tools**: TensorFlow, Pytorch, Scikit-learn, Pandas, Seaborn, Numpy, Matplotlib, Tableau, PostgreSQL, Opencv

ACADEMIC PROJECTS

- **Exploratory Project**: The title of the project was "Quantum Machine Learning", it involved a literature review of developing a Kmeans Clustering algorithm to be deployed on Quantum Computers and its application to physical problems, especially those involving the spin chain systems. Developed a Kmean Clustering model, using the Netket library, for unsupervised classification on the spin states.
- **U. G. Project (Ongoing)**: It is named "Satellite image analysis using Machine Learning". In the project, I am trying to build a machine-learning model for detecting the level of soil moisture by decomposing the scattering matrix formed by the recorded satellite data. The data being used is the SAR signal data received by the Sentinel-1 satellite.

PERSONAL PROJECTS

- **Natural Language Inference**: In this project I classified the hypothesis, given the premise, as "entailment", "neutral" or "contradiction". Used the state-of-the-art pre-trained multi-lingual BERT tokenizer and token classifier.
- **Human Activity Recognition using Vision Transformer(Ongoing)**: Building a Vision Transformer for Human Activity Recognition. Reproducing the methodology and the model architecture proposed in 'Vision Transformers for Action Recognition'(https://arxiv.org/abs/2209.05700).

ACHIEVEMENTS

- JEE Main 2020: Scored 99.1 percentile in the national level engineering entrance exam given by 1.2 million candidates yearly.

- JEE Advanced 2020: Scored All India Rank 19984, the top 1.5% of candidates appearing for the exam.