SUTIRTHA BISWAS

Data Scientist | QML Research

Professional experience of 1 year in the world of data, equipped with tools of advanced mathematical physics, exploring consciousness, trying to understand intelligence by mimicking it. Currently exploring quantum domain to explore the intersection of Physics and CS

sutirthabiswas2000@gmail.com

+916296672669

Durgapur, India

linkedin.com/in/sutirtha-biswas-11b6301b4

WORK EXPERIENCE

QML Research Intern
QuantumEx

08/2023 - 11/2023   Seoul, Republic of Korea

Achievements/Tasks

- Financial Modelling using stochastic differential equations
- Replicating of paper: " A quantum generative model for multi-dimensional time series using Hamiltonian learning"
- Benchmarking on currency exchange time series dataset and comparison with other existing techniques.

QIntern 2023
QWorld

07/2023 - 08/2023   Remote

Achievements/Tasks

- Project - Quantum Machine Learning on large datasets.
- Implement Quantum Self Attention Networks for image classification and benchmark results on standard datasets.

Data Scientist
Blend 360

08/2022 - 05/2023   Hyderabad, India

Achievements/Tasks

- Building end-to-end generalized forecasting tool package
- Optimize campaign strategies using market mix modelling

Technical Content Developer for Computer Vision
Big Vision LLC

05/2021 - 08/2021   Bengaluru, India

Achievements/Tasks

- Ship Detection from Satellite images using yolov4, and other variations of yolov4, yolov5 horizontal and rotated on MASATI dataset and create detailed performance report.
- Diabetic Retinopathy classification using EfficientNet

EDUCATION

Quantum Computing & Quantum Technologies, MSc
Democritus University of Thrace, Greece

10/2023 - Present   Greece

Engineering Physics, B.Tech
Indian Institute of Technology, Roorkee

06/2018 - 12/2022   Roorkee, India

B.Tech Project (supervisor - Prof. Anil Kumar Gourishetty, Dept. of Physics)

- Pulse Shape discrimination using ML

SKILLS

Python   SQL   AWS   Excel   Statistics

Machine Learning   Deep Learning   TensorFlow

PyTorch   NLP   Computer Vision   Pennylane

Qiskit   Quantum computing

ACHIEVEMENTS

JEE Advanced 2018 - AIR 3412

JEE Mains 2018 - AIR 1602

KVPY SA 2016 - AIR 271

NSEA 2017

CERTIFICATES

Deep Learning Specialization
DeepLearning.AI

NLP Specialization
DeepLearning.AI

Practical Data Science on AWS cloud
DeepLearning.AI

AWS Technical Essentials
AWS Training & Certification

IBM Quantum Spring Challenge 2023
IBM Quantum

IBM Global Summer School 2023
IBM Quantum

IBM Associate Developer - Quantum Computing using Qiskitv0.2x
IBM

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

Bengali
Native or Bilingual Proficiency

INTERESTS

Theoretical Physics   Applied mathematics

Listening to Music   Composing Poetry