vinay Singh

Research Scholar

Meticulous and analytical Researcher with 4 years of educational and hands-on experience in Physics especially in Quantum Entanglement, Quantum Information and Quantum Computing. Highly interested in Quantitative Research in Finance, Machine Learning, Data science



vs2255068@gmail.com

+919560800827

India (

_

linkedin.com/in/vinay-singh-030098125

github.com/vs1739562

_



EDUCATION

MSc, Physics IIT Bombay

07/2018 - 08/2020

Courses

 Master thesis - Low mass dark matter simulation GATE AIR -14

BSc(Hons) Physics

Kirorimal College, University of Delhi

07/2015 - 06/2018

CGPA = 8.55/10

CPI= 8.94/10

WORK EXPERIENCE

Quantitative Research Intern

Quantinsti Quantitative learning Pvt. Ltd.

01/2022 - Present

Mumbai

Achievements/Tasks

- Created a new course named Machine Learning Trading: Linear Regression.
- Performed new changes in Introduction to Machine Learning for Trading.
- Currently writing an article on Fractional derivative
- Helped creating Option Trading from Basics to Advanced level
- Crypto Trading: Intermediate

Research Scholar

IIT Kanpur

08/2020 - Present

Achievements/Tasks

- Teaching Assistant.
- Performed research into studying Quantum Coherence and Quantum Entanglement to increase knowledge and ability to provide valuable contributions.
- Quantum Computing using Qiskit and Cirq. · Performed Quantum entanglement experiments and research and documented all findings.

Research Intern

Karlsruhe Institute of Technology, Karlsruhe, Baden-Württemberg, Germany ♂

05/2019 - 08/2019

Achievements/Tasks

Dark Matter particle(WIMP) analysis using Simulation
Technique in GEANT4, ROOT and SRIM Calculated Track
Length, Energy Deposit and many other interaction Properties
of WIMP particles with Palaeo Detectors, which are radically
different from conventional detectors located inside deep
underground Labs.

PERSONAL PROJECTS

Machine Learning program to align mirrors in an Interferometric experiment.

Prediction of GLD market using Machine learning Linear Regression strategy ♂

Build a time series model to predict air quality in Nairobi

Sales insights data analysis project using Power BI 🗹

Created a Machine learning model that predicts apartment prices in Buenos Aires, Argentina

Worked with data from Open Data Nepal to build a model to predict building damage from the Nepal 2015 Earthquake.

Altiq Sales insights data analysis project using Tableau

CERTIFICATES AND ACHIVEMENTS

Applied Data Science lab by WorldQuant University (01/2022 - Present) ☑

Master Stats and Machine Learning by Mike X. Cohen

Python for Trading 🗗

Quantum Computing using Qiskit and Cirq 🗗

Stock Market Basics by QUANTRA

Trading with Machine Learning Regression 🗗

INSPIRE Scholarship by Ministry of S&T, GOI

DAAD Scholarship by German Goverment 🗹

LANGUAGES

English Professional Working Proficiency Hindi

Full Professional Proficiency