Kaustubh Gupta

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Education

Krishna Institute of Engineering & Technology
Bachelor's in Computer Science&Information Technology (2020-24)
CGPA - 8

Little Flower House
Higher Secondary education -Cbse Board (2017-18)
Percentage - 79%

Sunbeam School
Secondary education -CbseBoard (2015-16)
CGPA - 9.4

Coursework

- Data Structures & Algorithms
- Quantum Computation using qiskit
- Data Analysis& Pre-processing
- Database Management System
- Machine Learning
- Deep learning

Skills

PROGRAMMING
Python • C

TOOLS
VS code• Jupyter notebook • Spyder • GitHub •Scikit-learn• Numpy • Pandas • Seaborn •Tensorflow • Overleaf • Qiskit•kaggle •docker

Certifications

- **Intro to Quantum Computing**
  -The Coding School
- **Python for beginner**
  -University of Michigan
- **Python for Data Science**
  -IBM
- **Data Analytics on AWS**
  –AWS
- **Cybersecurity Essential**
  -Cisco
- **Intro to Cybersecurity**
  -Cisco

Research Interest

- Deep Learning
- Quantum Computing & QML

Projects

Admission-Chance-Predictor
- Tools Used- Python,Kaggle notebook,sklearn,seaborn,pandas,matplotlib
- Used ANN,Adaboost,XGboost,RandomforestRegressor to predict chance of admission based on features like LOR,CGPA,GRE score,etc.

Cat vs Dog-Classifier
- Tools Used- Python,Kaggle notebook,Tensorflow,VGG-16
- Used transfer learning,data augmentation,pretrained VGG-16(Convolution Neural Network) for creating a model to classify between dog and cat.

Encryption & Decryption using RSA
- Tools Used- Python,VS Code
- Two programs A&B.B perform encryption on user's alphabetic string, A generates asymmetric keys & perform decryption.

Quantum-Hadamard-Edge-Detection
- Tools Used- Python,Jupyter notebook,Qiskit
- Detecting the edge inside the image using QHED algorithm in a quantum computer simulator.

BB84-QKD protocol
- Tools Used- Python,Jupyter notebook,Qiskit
- An implementation of the BB84 protocol (which is a quantum key distribution protocol) using quantum statevector simulator.

Internship

Cisco CyberSecurity Internship
• VIRTUAL INTERN (SEP 2022)
- Learned how cybersecurity professionals use technologies, processes, and procedures to defend all components of the network.

IIPC-KIET python Internship
• VIRTUAL INTERN (AUG 2021)
- Learned the python language , oop concepts and worked on project using python language.

Co-Curricular

Qubitxqubit Curriculum
Participant(Nov 2022-April 2023)
• Completed two semester in quantum computing taught by quantum researchers at MIT and UC Berkeley,covering topics on quantum mechanics, quantum information and computation, and quantum hardware.

Haqs Quantum Computing Hackathon
Participant(Nov 2022)
• Attempted challenges in quantum machine learning & quantum entanglement.

DSC KIET Club
Member (Sep 2022)
• Explored multiple of ML and DL methods and implemented some DL approaches in projects.

Intellectual Property Office,India
Participant(Jan 2022)
• Participated in IP awareness program and learned different types of IP's.