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 -CBSE Board (2015-16)
CGPA - 9.4

Coursework

- **Data Structures & Algorithms**
- **Machine Learning and AI**
- **Data Analytics**
- **Database Management and SQL**
- **Quantum Computation using qiskit**
- **Probability and Statistics**
- **Cloud Computing**

Internship

IIPC-KIET Python Internship
VIRTUAL INTERN (AUG 2021)

• Worked on the python language, its libraries(sklearn, Pandas, NumPy), Object-Oriented concepts and created a Machine Learning Regression model with r2 score of 0.95.

Certifications

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

Projects

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

Cat vs Dog-Classifier
- Tools Used- Python,Kaggle,Tensorflow,VGG-16
- Used transfer learning,data augmentation,pretrained VGG-16(Convolution Neural Network) for creating a model to classify between dog and cat with 91% accuracy.

Encryption & Decryption using RSA
- Tools Used- Python,VS Code
- Created 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
- Implemented optimize method to find 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.

Skills

- **Programming Languages:** Python (NumPy, Pandas, Scikit-learn, Sci-py)
- **Machine Learning:** Supervised and Unsupervised Learning, Ensemble Methods
- **Data Visualization:** Matplotlib, Seaborn, Tableau, PowerBI
- **Database Management:** SQL,Excel
- **Platforms:** Linux, Windows
- **Deep Learning:** TensorFlow, Keras
- **Miscellaneous Skills:** Git, Streamlit, Qiskit, kaggle, Docker, Technical Writing, Strong Problem-Solving and Critical Thinking

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.