Kaustubh Gupta

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Education

Krishna Institute of Engineering & Technology
Bachelor's in Computer Science&Information Technology (2020-24)
CGPA - 7.8

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.

AutoPIPE:Targeted Marketing
- Tools Used- PowerAutomate,ChatGPT
- Created a Power Automate pipeline (flow) that, with one click, can scrape LinkedIn data and use it to craft custom targeted marketing messages (using ChatGPT) for individuals.

Image Classifier-(Cat/Dog)
- 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.

RSA Encryptor & Decryptor
- Tools Used- Python,VS Code
- Created two programs A&B,B perform encryption on user's alphabetic string, A generates asymmetric keys & perform decryption.

Edge Detection Using a Quantum Computer
- Tools Used- Python,Jupyter notebook,Qiskit
- Implemented optimize method to find edge inside the image using QHED algorithm in a quantum computer 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
- **Automation(RPA):** Microsoft Power Automate
- **Deep Learning:** TensorFlow, Keras
- **Miscellaneous Skills:** Git, Bash, Streamlit, Qiskit, Kaggle, Docker, Technical Writing and Strong Problem-Solving.

Co-Curricular

Tata Data Visualization:Job Simulation on Forage
PARTICIPANT(FEBRUARY 2024)
- Completed a simulation involving creating data visualizations for Tata Consultancy Services
- Prepared questions for a meeting with client senior leadership
- Created visuals for data analysis to help executives with effective decision making

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.

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