

Kaustubh Gupta



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Education

Krishna Institute of Engineering & Technology

Bachelor's in Computer Science & Information Technology
(2020-24)

CGPA - 7.9

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

AWS Academy Cloud Foundations

-AWS academy

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

Two-Tower Recommendation System

- Tools Used- Python, Kaggle, Huggingface, Tensorflow, Annoy, Pandas
- Implemented a Two-Tower(Query-Item) Retrieval Recommendation System for personalized recommendations. Leveraged separate neural networks for user queries and items. Utilized the Amazon Dataset(150k) for training.

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.

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.

MINI PROJECTS:

- Admission-Chance-Predictor
- Image Classifier-(Cat/Dog)
- RSA Encryptor & Decryptor

Skills

- **Programming Languages:** Python (NumPy, Pandas, Scikit-learn, Sci-py)
- **Machine Learning:** Supervised and Unsupervised Learning, Ensemble Methods
- **Data Visualization:** Matplotlib, Seaborn, PowerBI
- **Database Management:** SQL, Excel
- **Platforms:** Linux, Windows
- **Automation(RPA):** Microsoft Power Automate
- **Deep Learning:** TensorFlow, Keras, Huggingface
- **Miscellaneous Skills:** Git, Bash, Streamlit, Qiskit, Kaggle, Docker, Technical Writing

Co-Curricular

BCG Data Science Job Simulation on Forage

PARTICIPANT(MARCH 2024)

- Completed a customer churn analysis simulation for XYZ Analytics, demonstrating advanced data analytics skills.
- Conducted efficient data analysis using Python and completed the engineering and optimization of a random forest model, achieving an 90% accuracy rate in predicting customer churn.
- Completed a concise executive summary for the Associate Director, delivering actionable insights for informed decision-making.

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.