Kaustubh Gupta

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Education

Krishna Institute of Engineering & Technology — **Bachelor's in Computer Science & Info. Tech.** | CGPA: 7.9 — *2020–2024*
Little Flower House — **CLASS XII - CBSE** | Percentage: 79% — *2017–2018*
Sunbeam School — **CLASS X - CBSE** | CGPA: 9.4 — *2015–2016*

Course Work

Data Structures & Algorithms || Machine Learning and AI || Data Analytics || Database Management System || Computer Networks || Cloud Computing || Quantum Computation || Object Oriented System Design || Probability and Statistics

Technical Skills

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

Experience

Python Internship | *IIPC-KIET* — *August 2021*
- Worked on the Python language, its libraries(sklearn, Pandas, NumPy) and Object-Oriented concepts.
- Performed data analysis and created a Machine Learning Regression model with r2 score of 0.95 and crafted a report of my findings

Projects

Two-Tower Recommendation System | *Python, Kaggle, Huggingface, Tensorflow, Annoy, Pandas* — *March 2024*
- Implemented a Two-Tower (Query-Item) Retrieval Recommendation System for personalized recommendations.
- Utilized separate neural networks for user queries and items, leveraging the Amazon Dataset (150k) for training.

AutoPIPE: Targeted Marketing | *PowerAutomate, ChatGPT* — *January 2024*
- Created a Power Automate pipeline (flow) for scraping LinkedIn data and crafting custom targeted marketing messages using ChatGPT.

Admission-Chance-Predictor | *Python, Jupyter notebook, Pandas, Sklearn, Matplotlib* — *July 2023*
- Used ANN, Adaboost, XGboost, Random forest Regressor to predict chance of admission based on features like LOR, CGPA, GRE score,etc.

Retail Analysis -Dashboard | *PowerQuery, Power BI* — *May 2023*
- Created comprehensive BI dashboard on retail dataset, offering insights into sales performance, product trends, customer demography and customer behavior. Presented findings to CEO and CMO for strategic decision-making.

Edge Detection Using a Quantum Computer | *Python, Jupyter notebook, Qiskit* — *April 2023*
- Implemented optimization methods to find edges within images using the QHED algorithm in a quantum computer simulator.

Mini Projects:
- Image Classification using CNN
- Superstore Data Analysis
- RSA Encryptor & Decryptor

Awards and CertiFications

BCG Data Science Job Simulation | *Forage* — *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 | *Forage* — *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.

Introduction to Quantum Computing | *The Coding School* — *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.

AWS Academy Cloud Foundations | *AWS academy* — *March 2024*
Cybersecurity Essential | *Cisco* — *September 2022*
Data Analytics on AWS | *AWS* — *April 2022*
Python basic for Data Science | *IBM* — *September 2021*