

# Kaustubh Gupta

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## EDUCATION

Krishna Institute of Engineering & Technology  
Little Flower House  
Sunbeam School

**Bachelor's in Computer Science & Info. Tech.** | CGPA: 7.9  
**CLASS XII - CBSE** | Percentage: 79%  
**CLASS X - CBSE** | CGPA: 9.4

2020-2024  
2017-2018  
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 developed a Machine Learning Regression model with r2 score of 0.95 and crafted a report on 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

- Designed a Power Automate pipeline (flow) for scraping LinkedIn data and crafting custom targeted marketing messages using ChatGPT.

**Farmer Support System** | Python, Hugging-Face, Gemini API, Streamlit

Dec 2023

- Integrated Gemini api to offer real-time agricultural assistance. Features include query resolution in Hinglish/Hindi, crop disease prediction, market price updates, weather forecasts and government scheme information to empower farmers.

**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
- Admission-Chance-Predictor
- 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