

# Kaustubh Gupta

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## EDUCATION

Krishna Institute of Engineering & Technology	<b>Bachelor's in Computer Science &amp; Info. Tech.</b>   CGPA: 8.04	2020–2024
Little Flower House	<b>CLASS XII - CBSE</b>   Percentage: 79%	2017–2018
Sunbeam School	<b>CLASS X - CBSE</b>   CGPA: 9.4	2015–2016

## TECHNICAL SKILLS

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

## EXPERIENCE

- Data Analytics Internship** | Edunet-IBM skill build August 2023 (6 weeks)  
– Analysed the superstore dataset over kaggle and used pandas to perform some univariate and bivariate analysis.  
– Used matplotlib and seaborn to create some visualizations and a insightful report.
- 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.
- Farmer Support System** | Python, Robo-flow, Gemini API, Streamlit March 2024  
– 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.
- 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.
- Image Classification using CNN** | Python, Kaggle, Tensorflow May 2023  
– implemented a Convolutional Neural Network (CNN) classifier using the concept of data augmentation and transfer learning with a pre-trained VGG-16 model to create a model for classifying images as either cat or dog.
- 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:**  
– Retail Analysis -Dashboard  
– Admission-Chance-Predictor

## AWARDS AND CERTIFICATIONS

- BCG Data Science Job Simulation** | Forage March 2024  
– 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.
- Publication: K. Gupta, et al. "ML based-Binary Classification on Students' Dropout,"IEEE INDIACom, 2024.** March 2024  
– DOI: 10.23919/INDIACom61295.2024.10498546
- AWS Academy Cloud Foundations** | AWS academy March 2024  
**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.
- Getting Started Data Analytics on AWS** | AWS April 2022  
**Python basic for Data Science** | IBM September 2021