

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: 8.04
CLASS XII - CBSE | Percentage: 79%
CLASS X - CBSE | CGPA: 9.4

2020–2024
2017–2018
2015–2016

TECHNICAL SKILLS

Programming Languages : Python (NumPy, Pandas, Scikit-learn)

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