

Bulkapuram Akshara

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Education

National Institute Of Technology Karnataka, Surathkal

Dec. 2021 – Present

B.Tech in Artificial Intelligence

Surathkal, Karnataka

CGPA: 8.41

Minor (Management) : CGPA : 8.0

Narayana Junior College

June. 2019 – May. 2021

PCM (TSBIE) : 98.6% (986/1000) JEE mains : 98.8 percentile

Madinaguda, Hyderabad, Telangana

Technical Skills

Languages: Adept: C, C++, Python | Familiar: HTML, CSS, SQL

Frameworks/Technologies: Flexbox, Grid, Bootstrap, Tensorflow

Tools: VS code, Jupyter Notebook, Google Colab

Areas of Interests: Web Development, Data Science, Machine learning

Projects

Chess game | Python, Flask

Mar 2023- May 2023

[Github Link](#)

- An AI chess game was built from scratch using minimax algorithm with alpha-beta optimization, using piece square table heuristics and material score heuristics in the evaluation function.
- Created an interactive chess game web application using Flask.

Life Expectancy Prediction | Python, Data science, Pandas, Matplotlib, sklearn

Feb 2023 - June 2023

[Github Link](#)

- Performed Data Analysis on the WHO population dataset available on kaggle.
- Built a random forest regression model on this dataset to predict the life expectancy of a country in a given year.
- Experimented with various EDA techniques and Learnt about various technologies and packages like Matplotlib, sklearn.

Quantum Edge Detection for Images | Python, Qiskit

Feb 2023 - June 2023

[Github Link](#)

- Built a quantum project for image edge detection using quantum Hadamard circuit.
- Tested this model with 8x8 and 32x32 Black and white images and got successful results.
- Learned about python libraries qiskit, Pillow, and learned the implementation of quantum algorithms.

Extracurricular Activities

ISTE (Indian Society for Technological Education)

Nov. 2022- Present

- Conducted the Philosophy through Art Summer Mentorship Program.
- Collaborated with club members to work on year long projects in various fields.
- As a part of ISTE social initiatives group, Collaborated in organizing an interactive session with NITK highschool students to spread awareness on Mental Health and Menstrual health.

DDFC (Dance Drama and Fashion club)

June. 2022- Present

- Contributed in organizing various cultural festivals/events in campus.

Relevant Coursework

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|----------------------------|---|-------------------------------------|
| > Programming in C, Python | > Object oriented programming using C++ | > Design and Analysis of Algorithms |
| > Programming in C++ | > Data Science | > Data Structures and Algorithms |
| > SQL(code forces) | > Web development (ongoing) udemy | > Quantum Computing |