



Siddhesh Ayyathan

Roll No.:B22CS016

B.Tech

Computer Science and Engineering

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Github

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CSE)	Indian Institute of Technology, Jodhpur	8.23 (Upto 4th sem)	2022-2026
Senior Secondary	HSC Board	83.5%	2022
Secondary	IGCSE Board	92.8%	2020

EXPERIENCE

- World Quant** Oct.2023 - Jan.2024
Consultant Remote
 - Improved existing alphas by reducing turnover, changing hyper-parameters, combining fundamental analysis with sentiment data.
 - Read novel Research Papers published at World Quant Forum to generate new alpha ideas

PROJECTS

- Image Retrieval Using Traditional ML** Feb.2023 - May.2024
Worked in a team to develop a Image Retrieval System on CIFAR-10 dataset Paper | Github
 - Languages & skills used:** Machine Learning,Pattern Recognition,CNN and trivial Deep Learning
 - The project deals with developing a satisfactory Image Retrieval System using traditional Machine Learning techniques, abstaining from the usage of modern technologies like Computer Vision and Deep Learning.
- Travel Desk for Fests and PhoneBook program** Aug.2023 - Dec.2023
Used concepts of OOPS along with Data Structures and Algorithms to create real-life,useful programs. Github
 - Languages & skills used:** C++,Data Structures and Algorithms, Object-Oriented Programming, STL libraries,File & Error handling, Debugging
 - The Phone Book is implemented through hashing with collision handling using a chaining scheme, with the help of Linked Lists.It's a special phone book where we can save contact information like names, organizations, and phone numbers.
 - Binary Search Tree is used to implement Travel Desk software. This software simulates the process of bus-booking systems. The software allows admin to add trips between locations, allows users to book seats, displays the bus schedule according to their query.
- Freedman Inequality in IBM Qiskit** Aug. 2023 - Dec.2023
Created a circuit in Qiskit to disprove locality in hidden variables theory Github
 - Tools & technologies used:** Qiskit, IBM Quantum Platform
 - Learnt concepts of Quantum Mechanics, to prove violation.Developed a circuit by analysing research paper from Americal Journal of Physics and building it online, analogous to the experimental setup.

KEY COURSES TAKEN

- Data Structures and Algorithms,Pattern Recognition and Machine Learning, Software Engineering

TECHNICAL SKILLS

- Programming:** C/C++,Python,SQL
- Tools & OS:** Git/Github, Jupyter Notebook,Google Colab, Linux, Windows
- Libraries/Frameworks:** Pandas, Numpy, scikit-learn,Django, Tensor Flow
- Web Skills:** HTML/CSS/JS

POSITIONS OF RESPONSIBILITY

- Student Guide,** Student Well-being Committee June.2023 - May.2024
- Volunteer,** Programming Club Jan. 2024 - Present

ACHIEVEMENTS

- Amazon ML Summer School 2024** selected for Amazon ML Summer School 2024
- Joint Entrance Examination(JEE) Advance** secured a rank of 2385 among 2,50,000 candidates 2022
- KVPY SA Fellow ,IISC Bangalore** Secured 290 rank among 50,000 students 2020

CERTIFICATIONS

- Gold Level in World Quant Almathon** Crossed 10000 points in intra-college Almathon competition
- Neural Networks and Deep Learning Deep Learning AI** Implemented deep (vectorized) neural networks