VISHAL MANDAL

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I am a final year Undergraduate student with specialization in Information Technology. Love to work in a team and have very good team work experience. Like to solve problems and challenges. I am a technology enthusiast, seeking opportunities to work on different emerging technologies to have an impact on the real world.

EDUCATION

DEGREE AND INSTITUTION	SCORE	GRADUATION YEAR
Bachelor of Technology in Information Technology Institute of Engineering & Management-Kolkata	9.37 CGPA(5th sem)	NOV 2020-AUG 2023
Diploma in Computer Science and Engineering Government Polytechnic college - Dumka	71.75%	JUNE 2017-OCT2020
Matriculation (High school) CISCE-New Delhi	69%	MAY - 2017

INTERNSHIP EXPERIENCE

Summer Research Intern - QWORLD

Jun 2022 - Present

Qworld is a non-profit organization that provides education, internships and several opportunities in the field of
Quantum computing. The project title is **Demonstration of "Lambeq" Library**. Lambeq, the first high-level
open-source Python toolkit for **Quantum NLP** developed by **Cambridge Quantum**.

PROJECT EXPERIENCE

AIR POLLUTION MONITORING AND PREDICTION USING IOT & ML

May 2022 - Present

• Developing an interface to design, develop and execute an IoT & ML based model to predict AQI Index of the environment with a team of 4 members.

COMPILER DESIGN VIRTUAL LAB

Apr 2022 - May 2022

- Developed a virtual lab to show the different experiments conducted on lab classes for Compiler Design. The project was built as a part of our college assignment in a team of 5 members by using HTML, CSS & JavaScript.
- · GitHub: https://github.com/Vishal-Mandal/COMPILER-DESIGN-VLAB

QUANTUM SUDOKU

Apr 2022 - Apr 2022

- The project was built using the Qiskit framework. It allows the users to interact with the real Quantum Computers and learn more about them. It was a 24-hour project as a part of QCHackathon2022.
- · GitHub: https://github.com/Vishal-Mandal/QCHack-2022

ONLINE SHOE STORE

Jun 2020 - Jul 2020

- This project was to build an online e-commerce shopping website where users can look for products, search them and can also order their selected products.
- GitHub: https://github.com/Vishal-Mandal/ONLINE-SHOE-STORE

AIRLINE RESERVATION SYSTEM

Sep 2019 - Oct 2019

- The project was to build an online ticket booking system for airlines. The system is capable of showing the time table of different flights, search flights, book tickets etc.
- · GitHub: https://github.com/Vishal-Mandal/AIRLINE-RESERVATION-SYSTEM

RESEARCH EXPERIENCE

Uncertainty Principle in the Light of Quantum Information Science

Oct 2021 -Dec 2021

- · Wrote a paper with a team of 4 members under the guidance of Prof. Amit Kumar Mandal to represent the uncertainty of position & momentum in the realm of Quantum Mechanics. The paper focuses on the concept and the mathematical aspect of this principle.
- Link: https://drive.google.com/file/d/1AiWQqMgqQ2eungQSNKMB6e6kpJifqJQy/view?usp=sharing

AWARDS/CERTIFICATIONS

MICROSOFT CERTIFIED: Passed Exam SC-900: Microsoft Security, Compliance & Identity Fundamentals.

- Certificate: https://www.credly.com/badges/e299a806-569e-4cfc-9bf7-f4348da8e751?source=linked_in_profile **PYTHON 101 FOR DATA SCIENCE (PY0101EN, provided by IBM):** The content for this course is created by IBM and the certificate is issued by Cognitive classes. The course teaches the basics of Python and some of its libraries.
- Certificate: https://courses.cognitiveclass.ai/certificates/e56d4a29f48c49c4bf192100d93cd11d QUANTUM COALITION HACKATHON: Successfully submitted the project under time.
- Certificate: https://drive.google.com/file/d/188GlqKfnDuWHxMDrNTY3P9bcVxveDwcC/view?usp=drivesdk
 QBRONZE CERTIFIED: Successfully completed the Qbronze workshop using Qiskit with a quiz score of 71% overall.
- Certificate: https://drive.google.com/file/d/1Kzde6lbrBq7YKp5NP7MtykVifjXTo6ue/view?usp=sharing QSILVER CERTIFIED: Successfully completed the Qsilver workshop using Circ.

ACTIVITIES

- Got honorable mention in **QC-HACK2022** conducted by **Quantum Coalition** and sponsored by companies such as IBM,Microsoft,AWS etc.
- Participated in the AWS DeepRacer Student League 2022 and ranked in the top 500 globally. Also received scholarship for AI Programming with Python Udacity Nanodegree Program.
- Participated in Qiskit Global Summer School 2022, hosted by IBM Quantum mainly focused on Quantum Simulations.
- Received scholarship and actively participated in Womanium Global Quantum Computing & Entrepreneurship Program.

TECHNICAL SKILLS

- · Programming Language : C , Java, Python, Qiskit, Circ, HTML, CSS
- Toolkit: Jupyter, Spyder, Lambeq
- · Experience in OS: Windows, Linux
- · Libraries: Numpy, Pandas, Matplotlib, scikit-learn
- · Soft Skills: communication, team work

SUBJECT OF INTEREST

- · Quantum Computing · Artificial Intelligence & Machine Learning
- Data Structure & Algorithms
 Object Oriented Programming

LANGUAGE SKILLS

- · Hindi Fluent · English Proficient
- Bengali Native

HOBBIES

- · Dance · Martial Arts
- Explore