ISHAN DUBEY

Bengaluru, Karnataka

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Education

Ramaiah Institute of Technology	**Aug 2019 – May 2023**
Bachelor of Engineering, Computer Science	*Bengaluru, Karnataka*

CGPA: 8.98/10. Graduated with distinction.

Indore Public School	**Apr 2016 – May 2018**
CBSE, XII	*Indore, Madhya Pradesh*

76.6%

Delhi Public School	**Apr 2015 – Mar 2016**
CBSE, X	*Jabalpur, Madhya Pradesh*

CGPA: 10/10. Graduated with distinction.

Technical Skills

Languages: Python, C++, Java, SQL, Bash
Developer Tools: Docker, Postman, Visual Studio Code
Technologies/Frameworks: Linux, Git, Openstack, PyTorch

Internships

Infrastructure Development Corporation, Karnataka (iDeCK)	**May 2020 – August 2020**
Software Engineer/Tester Intern	*Bengaluru, Karnataka*

- Developed and deployed an inventory management and food order tracking application for street vendors using Axpert, a low-code platform.
- Reduced the database search time by applying search query optimization in the PostgreSQL database.
- Created test cases for a tourism information system for popular tourism spots in Karnataka. Improved the reliability of the project by performing unit, function, and integrity tests.
- Prepared the System Requirement Specification (SRS) and Functional Requirement Specification (FRS) for upcoming and ongoing projects undertaken by the team.

Projects

Private Cloud Setup and Administration | *C++, Openstack, Docker*	**Jan 2023 - May 2023**

- Built a multi-node private cloud from scratch using Openstack, then deployed it on baremetal servers in the Department of CSE, RIT.
- Provisioned virtual machines to host and offer a lab testing software as a service to tenants.
- Stress tested the architecture by conducting actual assessments of 80 students in real time. Used the collected data to fine tune the cloud architecture.
- The project was funded by Vision Group on Science and Technology (VGST), Karnataka.

Virtual Lab Assistant | *Python, Manim*	**Jan 2022 – May 2022**

- Animated concepts from Data Structures and Fundamentals of Computing for a virtual lab assistant using Manim, for use within the Department of CSE, RIT.
- Used FFmpeg to generate explanation videos of the topics iteratively from Python scripts.
- Integrated the animations with the MERN-based lab assistant using YouTube Data API.

Trivia Question Data Prediction | *Python, scikit-learn*	**November 2021**

- Created a machine learning model that produces an approximate monetary value corresponding to a short trivia question for game shows like Jeopardy!
- Applied Natural Language Processing to the questions using NLTK to preprocess input data.
- Compared the performance of various learning models and explored real-world applications of the project.

Leadership / Extracurricular

TEDxMSRIT	**Sept 2022 – Feb 2023**
Head of Content	*Ramaiah Institute of Technology*

- Lead a team of 60 volunteers to work on content-related responsibilities for TEDxMSRIT.

ASME/Boeing AM 3D Aero Conference	**Dec 2022**
Student Coordinator (Cultural), Anchor	*Ramaiah Institute of Technology*

- Coordinated with the student volunteers and the organizing committee for the cultural section of the event.