

ISHAN DUBEY

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Education

University of New South Wales

Feb 2024 – Dec 2025 (Expected)

Master of Information Technology (Data Science)

Sydney, NSW

Cumulative Grade: 78.375/100

Latest Term Grade: 88.000/100

Completed Courses: Data and Machine Learning, Extended Artificial Intelligence, Data Structures, Principles of Programming (Python), Foundations of Computer Science (Discrete Math), Database Systems, Computer Networks and Applications, Engineering Project Management

Ramaiah Institute of Technology

Aug 2019 – May 2023

Bachelor of Engineering, Computer Science

Bengaluru, Karnataka

Cumulative GPA: 8.98/10. First class with distinction.

Relevant Courses: Cloud Computing and Big Data, Software Development, Object Oriented Programming, Data Mining and Machine Learning

Full transcript of undergraduate courses available upon request.

Technical Skills

Software and Frameworks: FastAPI, Openstack, Tensorflow, Docker, Flutter

Programming Languages: Python, C++, Java, Rust, C#

Developer Tools and IDEs: Jupyter Notebook, VS Code, Anaconda

Utilities: Microsoft Office Tools, LibreOffice Suite, Google Workspace

Projects

Private Cloud Setup and Administration | C++, OpenStack, Docker

Jan 2023 – May 2023

- Designed and implemented a multi-node private cloud from scratch using OpenStack, deployed on bare-metal servers for the Department of CSE at Ramaiah Institute of Technology, Bengaluru.
- Provisioned virtual machines to host and deliver lab testing software as a service to tenants.
- Conducted real-time assessments for 80 students to stress-test the architecture, using the results to optimize performance.
- Project funded by the Vision Group on Science and Technology (VGST), Karnataka.

Virtual Lab Assistant | Python, Manim

Jan 2022 – May 2022

- Developed animated visualizations of Data Structures and Algorithms concepts for a virtual lab assistant, utilized within the Department of CSE at RIT.
- Published the animations on YouTube, garnering over 21,000 views.
- Project work available [here](#).

Trivia Question Data Prediction | Python, scikit-learn

November 2021

- Designed a machine learning model to estimate the monetary value of trivia questions for game shows like *Jeopardy!*.
- Utilized Natural Language Processing (NLP) techniques with NLTK to preprocess and analyze input data.
- Evaluated and compared the performance of multiple learning models, highlighting real-world applicability.

Internships

Ful.io

Sep 2023 – Nov 2023

Technical and SEO Intern

Bengaluru, Karnataka

- Developed and optimized website content to improve SEO performance, resulting in increased page ranking and domain authority.
- Designed and implemented an automated data pipeline to analyze historical B2B data for SEO strategy refinement.
- Collaborated with the development team to integrate SEO-friendly features into the company's website architecture, improving user engagement.
- Assisted in maintaining the backend of the website by troubleshooting and optimizing client data storage and retrieval systems.

Infrastructure Development Corporation, Karnataka (iDeCK)

Jan 2023 – May 2023

Software Engineer and Tester Intern

Bengaluru, Karnataka

- Developed and deployed the backend for an inventory management and food order tracking application using .NET Framework.
- Migrated the existing functionality from Axpert (a low-code platform) to the .NET infrastructure.
- Created and executed test cases for a tourism information system, improving project reliability through unit, functional, and integrity testing.
- Prepared System Requirement Specifications (SRS) and Functional Requirement Specifications (FRS) for ongoing and upcoming projects.

Leadership / Extracurricular

TEDxMSRIT

Sept 2022 – Feb 2023

Head of Content

Ramaiah Institute of Technology

- Led a team of 60 volunteers in content creation, editing, and thematic alignment for TEDxMSRIT, ensuring high-quality material for the event.
- Acted as the liaison between students, the institution, and event sponsors, facilitating smooth communication and coordination.
- Oversaw documentation processes and managed feedback analysis, delivering a final report to TEDx.

ASME/Boeing AM 3D Aero Conference

Dec 2022

Student Coordinator (Cultural), Anchor

Ramaiah Institute of Technology

- Coordinated cultural activities by collaborating with student volunteers and the organizing committee, ensuring smooth execution of the event.
- Hosted the event as an on-stage anchor, engaging the audience and maintaining the event's flow.
- Worked closely with Boeing and ASME to fulfill all event requirements.