

# Yubaraj Shrestha

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## Introduction:

I am graduate in **Computer Science and Information Technology (BSc.CSIT)** from **Amrit Science Campus (ASCOL), Nepal**, with a strong foundation in programming, problem-solving, and applied computer science. Throughout my undergraduate journey, I developed solid expertise in Python, along with experience in **C, C++ , Java, and JavaScript**.

My coursework and projects allowed me to apply concepts from **the BSc.CSIT** syllabus, including:

**Data Structures and Algorithms** for efficient problem-solving

**Database Management Systems (DBMS)** and **Operating Systems** for system-level understanding

**Computer Networks, Software Engineering, and Web Technologies** for practical development

**Mathematics, Probability, and Statistics** for analytical and data-driven approaches

Beyond academics, I have pursued **Machine Learning** through the **Stanford Online** course on **Coursera**, where I gained hands-on experience with Python libraries such as **NumPy, Pandas, and Matplotlib**, strengthening my skills in data analysis and manipulation.

I have also been an active participant in the **Data Fellowship Program** by **DataCamp**, working on Python-based data science projects. Additionally, I am independently studying **Artificial Intelligence**, an area closely aligned with my interests in **Python** and data-driven technologies.

## Education

**Amrit Science Campus- Ascol(Tribhuvan University)**, BSc.CSIT in Computer Science Nov 2019 – May 2023

- **Coursework:** Computer Architecture, Digital Logic, Cloud Computing, Theory of Computing, E-commerce, E-Governance, DDA, Discrete Structure, Advance Java, C#.NET of Learning Algorithms, Computational Theory

**Arniko Awasiya Higher Secondary School**, +2 Science Mar 2016 – July 2018

- **Coursework:** Mathematics, Physics, Chemistry, Computer Science

## Experience

**Home Tuition Instructor for Class 10** Apr 2025 – Current

- Computer Science
- Com. Mathematics
- Opt. Mathematics.

**Secondary Computer Science Teacher,** oct 2024 – June 2025

- Taught Computer Fundamentals, Operating Systems, and Office Applications (MS Word, Excel, PowerPoint) as outlined in the Grade 9–10 syllabus
- Instructed students in programming concepts using C and C++ , focusing on problem-solving and logic building (Grade 11–12 syllabus).
- Guided students through HTML, CSS, and basic JavaScript for web technology topics.
- Introduced concepts of Computer Networks and Internet as per the secondary curriculum.
- Designed and evaluated practical lab work, assignments, and project-based learning activities.
- Mentored students on problem-solving, computational thinking, and real-world applications of computer science.
- Integrated multimedia and ICT tools in classroom teaching for better understanding of technical concepts.

**Trainee Sales Executive (TSE, Jasper it Solutins** June 2018 – Aug 2019

- Assisted the sales team in promoting software development services, web solutions, and IT products to clients.
- Participated in client meetings and presentations, helping explain technical offerings in a simplified manner.
- Coordinated between the technical team and clients to gather software requirements and ensure proper

communication.

- Prepared and maintained sales reports, proposals, and documentation for prospective clients
- Learned how software development companies package and present their web, mobile, and enterprise solutions in the market.

## Projects

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### Desktop Calculator Application (Python)

[github.com/yubarajstha/calculator](https://github.com/yubarajstha/calculator)

- Developed a GUI-based Calculator using Python for performing basic arithmetic operations (addition, subtraction, multiplication, division).
- Implemented the application with Tkinter library for the user interface and integrated error handling for invalid inputs.
- Designed a simple, user-friendly layout that mimics a standard calculator for easy usability.
- Packaged the project as a desktop application, providing hands-on experience in GUI development and Python libraries.

## Technologies

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**Languages:** C++, C, Java, Objective-C, C#, SQL, JavaScript, python, ai/ml

**Technologies:** .NET, Microsoft SQL Server, Interface Builder