Upendra Gautam
Mechanical Engineering Student

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Profile

"Hi ✋! I'm an Engineering Student with fervent passion for Aviation and Technology. I have this tenacity of detail-oriented approach in solving complex problems and I believe in contributing to projects that might end-up changing the way we live our lives. There exists a vacuum in-between industry and academia which I refer as "Techno-ether" which embargoes orthodox wisdom in infiltration of a practical setting. So, it's essential for young mind to be groomed from an experienced one in building the innovators of tomorrow."

- a young mind

Education

BE Mechanical Engineering *Institute of Engineering, Pulchowk Campus*   **Pulchowk, Lalitpur** *2021-2025*
Relevant Courses: Introduction to Engineering, Calculus, Thermodynamics & Heat Transfer, Numerical Analysis, Fluid Mechanics & Machines, Engineering Mechanics

+2 Physical Sciences *Kathmandu Institute of Science & Technology*   **Kathmandu, Nepal** *2018-2020/21*
Relevant Courses: Pre-Calculus, Introductory Physics, Introductory Chemistry

Research and Interest Areas

Computational Mathematics - Combinatorics - Statistics - Algorithm Design - Engineering Design - Digital Strategy - Aircraft Dynamics

Experience

Stanford Code in Place, *(S-CIP)*   *Apr 2024 - May 2024*
- Part of Programming Class 2024 for problem solving with Python
- Built a sudoku solver utilizing backtracking algorithm

Samsung Innovation Campus, *(SIC)*   **Pulchowk, Lalitpur** *Jan 2024 - Apr 2024*
- Introduction to Python Programming Language
- Learned various algorithmic approach to problem solving
- Data Visualization and Data Filtering with numpy and matplotlib
- Built a GUI application for Analysis of Truss as SIC Hackathon Project

Eco-Village Development Project South-Asia District, *(CRT-N)*   **Manbhawan, Lalitpur** *Nov 2023*
- Served as an Assistant and Interlocutor for External Project Evaluator
- Facilitated communication between governmental agency, public and project evaluator
- Aided project evaluator with preliminary documentation
- Drafted report on 3 day Project Assessment Expedition

Kathmandu Aviation Museum, *(KAM)*   **Singamangal, Kathmandu** *Oct 2018 - Nov 2018*
- Assembled Plastic Aircraft Models to go on display inside the A330 Museum.
- Engaged in discussions regarding the current scenario of aviation in Nepal, contributing insights and ideas to enhance the industry.
- Facilitated activities to generate excitement about air travel among visitors, fostering a deeper appreciation for aviation history and innovation.

Projects

Sudoku Solver [github]　　　　　　　　　　　　　　　　　　　　*2022*

- Console Application for solving soduku
- Implemented back-tracking algorithm

Web Scrapper [github]　　　　　　　　　　　　　　　　　　　　*2021*

- Console Application that fetches IMDB's top 50 highly rated movies
- Utilized HTML parser and web request modules

GUI Calculator [github]　　　　　　　　　　　　　　　　　　　*2021*

- Implemented Calculator utilizing Tkinter module
- utilized Reversed Polish notation for calculation

3D Zombie Apocalypse [github]　　　　　　　　　　　　　　　*2020*

- Implemented infinite route traversal
- Implemented Pause/Resume, Menu window
- Added 3D kill animation for Zombie

Online Courses & Certifications

- Introduction to Programming with C# (2020) - [Sololearn](#)

- Programming in Java (2020) - [Sololearn](#)

- Programming with Python (2021) - [Udemy, Samsung](#)

- Introduction to Cryptography (2022) - [Coursera](#)

Skills

- **Data Visualization:** Numpy, Pandas, Scikit-learn

- **Programming Languages:** C, Java, C#, Python, and Shell-scripting

- **Software:** Git, Adobe Photoshop, SQL

- **Engineering:** AutoCAD, Solidworks, Ansys [Learning phase]

- **Soft Skills:** Presentation, Planning, Organized, Creative Problem-Solving, Teamwork, Active Listening, Analytical Thinking

Languages

- **Nepali** [Native]
- **English** [Proficient]

- **Hindi** [Proficient]