

Nishank Uprety

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SUMMARY

Enthusiastic and detail-oriented Computer Applications student specializing in Data Science and AI/ML. Skilled in full-stack development, cloud technologies, and machine learning with experience in freelancing, backend systems, and automation. Passionate about creating efficient solutions through innovation and collaboration.

WORK EXPERIENCE

Python Instructor, OpenBrackets for Majhitar School Apr 2024 – Oct 2024

- Delivered two 8-week remote Python programming courses to 50+ middle school students with no prior coding experience.
- Designed interactive Google Colab notebooks covering programming fundamentals, data structures, and algorithms.

Freelance Web Developer, Downtown Restro and Bar (Sikkim, India) Feb 2023 – Jul 2023

- Developed and maintained the restaurant's website with integrated QR-based digital menu systems.
- Hosted and managed the site on a self-built local server for cost efficiency and reliability.
- Conducted periodic updates for menu and event information.

PROJECTS

Fischl (Multipurpose Discord Bot) Feb 2022 – Present

- Built and maintained a feature-rich Discord bot serving over 200,000+ users with 99.9% uptime using **Discord.py**, **Flask**, and **Firebase**.
- Implemented modular systems for ticket management, event coordination, and automated queues.
- Designed a full-stack dashboard (Flask backend) enabling admins to view analytics and manage settings.
- Integrated **Prometheus** and **Grafana** for real-time monitoring and performance visualization.

RESEARCH PUBLICATION

Integration of UNET and GAN for Specular Reflection Detection and Inpainting in Colonoscopy Medical Images

Published in *IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT 2025)*

Developed a hybrid deep learning model combining **UNET** and **GAN** for enhanced medical image inpainting accuracy.

Paper ID: 2025IEEECONECCT-1881

EDUCATION

2022 – 2025 **Bachelor of Computer Applications (BCA)** — Data Science and AI/ML Specialization,
Manipal University (Sikkim Manipal Institute of Technology) CGPA: N/A
(Results Awaited)

TECHNICAL SKILLS

Languages & Scripting	Python, JavaScript, TypeScript, C, C++, C#, Java, PHP, SQL, HTML, CSS, JSON, YAML, Bash, Shell Scripting
Frameworks & Libraries	React, Flask, Node.js, .NET, TensorFlow, Keras, OpenCV, Pandas, NumPy, Bootstrap, jQuery, Discord.py
AI/ML & Computer Vision	UNet, GAN, CNNs, Autoencoders, Transfer Learning, Computer Vision, Model Deployment, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebooks, Google Colab
Databases & Data Tools	MySQL, DBMS, Firebase, Vercel, Cloudflare
Cloud & Infrastructure	AWS, Azure, Docker, Linux, Git, GitHub
Monitoring & DevOps	Prometheus, Grafana
Productivity Tools	MS Office (Excel, PowerPoint, Word)
Soft Skills	Problem-Solving, Team Collaboration, Communication, Mentoring
Operating Systems	Linux, Windows