

Smayan Agarwal

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Education

Ashoka University, Haryana, India

August 2022 – May 2026

B.Sc. (Hons) in Computer Science and Mathematics with a Minor in Physics

- Cumulative GPA: **3.81/4.00**
- Major GPA: **3.87/4.00**

Internships and Work Experience

Raman Research Institute | Research Intern

June 2024 – December 2024

- Conducted **quantum computing research** under the supervision of Professor Urbasi Sinha (Bhatnagar Award recipient) at the Quantum Information and Computing Lab (QuIC), continuing beyond the summer internship period.
- Developed novel quantum algorithms incorporating Quantum Fourier Transform techniques to **optimize signal processing** for both one-dimensional and two-dimensional datasets.
- Implemented quantum computing methods for ECG signal analysis, demonstrating improved computational efficiency and accuracy in biomedical signal processing applications.

BITS Pilani, Goa Campus | Research Intern

May 2024 – June 2024

- Processed and analyzed **remote sensing data** from Navsat and Sentinel geosatellites to gather comprehensive forest coverage data across the Western Ghats region.
- Applied **ensemble machine learning** techniques, including Bagging and Random Forest algorithms, to predict biomass content and quantify carbon sequestration potential of forest ecosystems.

Confluence Media, Delhi | Research Intern

May 2023 – July 2023

- Led research and production efforts for a documentary series on **sex work in India** under the mentorship of distinguished journalist Josy Joseph, contributing to critical discourse on social issues.
- Conducted extensive research and actively participated in recording and shooting of episodes.

Dorje Teas | Tech Intern

May 2021 – Present

- Responsible for the setting up and maintaining performance marketing on Meta Ads and Google Ads which resulted in a **ROAS (Return on Ad Spend) of 4.5**.
- Worked on **SEO initiatives and addressed website slowdowns**, resulting in heightened viewer retention and reduced bounce rates.
- **Expanded product visibility** by strategically adding catalogue listings to four distinct e-commerce platforms, effectively doubling product exposure.

Extra – Curricular Activities

Quizzing Club | President

September 2023 - Present

- Part of the founding team. **Organized over 20 quizzes**.
- Head of organizing the inter-college quizzing competition which had **participation from over 150 students**.