

PRIYANSHU SHARMA

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A results-driven Data Analyst with proven expertise in translating complex data into actionable business strategy. Adept at leveraging advanced analytical tools, including SQL, Power BI, and Tableau, to drive significant operational improvements and policy changes within a fast-paced healthcare environment. Combines deep technical skill in data modeling and developing cost-effective reporting solutions with a passion for leadership and innovation.

EDUCATION

- **Academic Exchange Program**, completed final undergraduate year in computer science & engineering at the Indian Institute of Technology (IIT), Hyderabad **May'25**
- **Bachelor of Computer Science & Engineering**, Kathmandu University, Dhulikhel **July'24**
CGPA: 3.96/4

WORK EXPERIENCE

Healthcare Data Analyst, People's Dental College and Hospital, Kathmandu *Jun'25 – Present*

- Developed a full data pipeline to transform raw appointment data into strategic insights, using SQL and Python (Pandas) for ETL and creating dynamic Tableau dashboards to monitor operational metrics across four key dental specialties.
- Reduced patient wait times by 38% (from 45 to 28 mins) and cut no-show rates by 45% (from 25% to 12%) by implementing an automated SMS reminder system and an on-demand slot-release feature.
- Drove a 130+ increase in monthly patient visits through data-driven operational improvements.
- Catalyzed a hospital-wide policy change for staggered staffing and extended hours by presenting actionable insights to the CEO and department heads weekly
- Cut report generation time by 50% and boosted data accuracy by 25% by designing and implementing a centralized Power BI reporting template with automated nightly refreshes.

INTERNSHIP EXPERIENCE

University research intern, Kathmandu University, Dhulikhel *Mar'23 – Jan'24*

- Co-authored the research proposal and literature review on title "Deep Learning-Based Crop Yield Prediction Model for Enhanced Agricultural Planning and Food Security in Nepal", securing a **KOICA** (Korea International Cooperation Agency) Foundation grant of **\$5000**
- Involved in data collection, data pre-processing and the development of a crop yield prediction model using RNN with LSTM architecture
- Supported early-stage planning of the project including the data collection sources & methodologies, site selection and research objectives under the principal investigator

ACADEMIC PROJECTS

Unified Health Service (UHS) *Jan'25 – Apr'25*

- Developed a centralized system for scheduling appointments, maintaining medical records, and managing hospital resources, ensuring a seamless experience for patients, doctors, and hospital staff.
- Worked as a **full-stack developer**, responsible for designing and implementing **RESTful APIs using Node.js and MongoDB** and building responsive **mobile interfaces using React Native**.
- Ensured secure handling of sensitive medical data and collaborated closely with team members using Git for version control.

Bank Management System

Feb'24 – Jun'24

- Developed an ATM Simulator for opening a bank account, depositing, withdrawing, checking mini statement, and changing PINs
- Led backend development and database design, created the account management module, implemented secure transaction processing using Java, designed normalized relational schemas in MySQL for handling customer and transaction data.

PUBLICATIONS

- Shrestha, A., Sharma, P., Khatri, D., Paudel, B. “*Analytical Study on Impacts of Natural and Human-induced Crises for the Welfare of South Asian Heritages*”, presented at the International Symposium “The Next 50 Years: Challenges and Opportunities for World Heritage” (UNESCO), 26–27 November 2022; accepted for publication in UNESCO Proceedings
- Khatri, D., Sharma, P., Paudel, B., Shrestha, A. “*Digitization of Cultural Heritage Sites and Artifacts using 3D Documentation for Their Conservation*”, presented at the International Symposium “The Next 50 Years: Challenges and Opportunities for World Heritage” (UNESCO), 26–27 November 2022; accepted for publication in UNESCO Proceedings

AWARDS AND ACHIEVEMENTS

- Won the People’s Choice Award, in Aug’24, among participants from 19 countries while serving as the National Representative at Seeds for the Future by Huawei at the **Asia Pacific Digital Talent Summit**, China, for designing and presenting UltraCare, an AI-based health solution to detect early pregnancy complications, addressing maternal health challenges in low-resource settings
- Selected as the only student speaker on the opening panel at **The Asia Foundation’s Women in Data Conference**, Kathmandu, Mar’24, sharing the stage with Pramila Devi Bajracharya (Secretary, Ministry of Education, Science & Technology)
- Awarded as the winner, amongst 50 teams, for the KU Hackfest (E-Governance category) at the IT Meet 2023 by the Kathmandu University Computer Club (KUCC), for an innovative civic-tech solution using blockchain to gamify civic duties like paying taxes
- Winner of the KUCC CUP 2023 Basketball and Futsal tournament in the girls’ category

PRESENTATIONS, WORKSHOPS AND SEMINARS

- Attended the **HPAIR** (Harvard College Project for Asian and International Relations) Asia Conference (ACONF) in Tokyo, **Aug’25**
- Conducted workshops on ‘Introduction to Cloud Computing’ **Feb ’23**, ‘Python bootcamp’ **May ’23**, ‘Research Proposal writing workshop’ **Sept ’24** as a Microsoft student Ambassador, catering to students across Kathmandu valley

CERTIFICATIONS AND TECHNICAL SKILLS

- Microsoft Power BI Data Analyst Specialization, Microsoft, Coursera, **Aug’25**
- Business Analytics Specialization, University of Pennsylvania, Coursera, **July’25**
- Supervised Learning Specialization, Dr. Andrew NG, Coursera, **Feb’24**
- HTML, CSS, and JavaScript for Web Developers, Johns Hopkins University, Coursera, **Sept’22**
- Proficient in: Power BI, TensorFlow, Keras, Scikit-learn, PyTorch, Python, Flask, JavaScript, Excel, Tableau, React, C, C++, Dart, AdobeXD, GIT, Figma, Canva

EXTRACURRICULAR ACTIVITIES

- **Founder and Event Lead, EmpowerHER, IT Meet, Kathmandu University, Nov'24:** Led a team of 12 to organize the university's first all-female tech event, EmpowerHER, engaging 100+ participants. Designed event agenda, secured sponsorships, invited women tech leaders as speakers, and created a supportive platform to foster inclusivity in tech
- **Executive, Kathmandu University Computer Club (KUCC), Feb'23 – Feb 24:** Served as a Program Coordinator by planning and executing over 10 technical workshops, hackathons, and community-building events for 500+ students, besides contributing to club decision-making for resource allocation, event partnerships, and academic-industry collaboration efforts.
- **Appointed as a Microsoft Learn Student Ambassador – Beta, through Microsoft Student Ambassador Program**
- **Served as Editor of the journal IT EXPRESS,** overseeing content curation and editing articles, departmental messages, and blogs to ensure clarity, quality, and alignment with the publication's standards.
- **Worked in the logistics team and sponsorship team of KUCC's IT Meet,** a two-day tech event with 5000+ participants, Dec'24
- **Participated in Basketball, Cricket, Futsal, Chess, and Badminton,** representing the department in different tournaments
- **Volunteered at elderly homes (Pashupatinath) and 'Nyano Kaakh' orphanage for mentally challenged children** through an initiative by the Universal Solidarity Movement (USM) Club, organizing visits and providing companionship on personal occasions such as birthdays.