

PRIYA CHAUHAN

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WORK EXPERIENCE

Healthcare Innovation & Strategy Specialist

July 2026- Present

PCOS Challenge: The National Polycystic Ovary Syndrome Association

Bethesda, Maryland, United States (Remote)

- Conducted gap analysis of clinical research consulting services across drug and device workstreams for the Medical Product Developer Engagement team, and drafted preliminary SOPs establishing an audit-ready quality framework.
- Synthesized patient-level insights from a 60,000+ patient PCOS/PMOS registry into FDA and GCP aligned documentation for early-stage medical product development, and mapped patient-prioritized endpoints against active PCOS/PMOS clinical trials.

Research Associate

Jan 2026- Present

Medicines Research Group- unit of Karma Medical

Noida, Uttar Pradesh

- Conducted primary market research across 16+ projects spanning oncology, gastroenterology, respiratory, and rare disease molecules, conducting KOL and healthcare stakeholder interviews to generate insights on treatment landscapes, prescribing behaviour, and unmet clinical needs.
- Delivered market research for biosimilars, generics, injectables, and oral and inhalation formulations, quantifying primary research data to support market sizing, opportunity assessment, and competitive intelligence across the pharmaceutical lifecycle for US and EU markets.

Summer Research Fellow

June 2025- Aug 2025

Stanford Center for Innovation in In Vivo Imaging (SCI³), Stanford School of Medicine, Stanford University

- Selected for **Molecular Imaging Summer Fellowship** at the Stanford Center for Innovation in In Vivo Imaging (SCI³), building expertise in imaging modalities, radiochemistry, molecular probes/tracers, and AI-enabled biomedical image analysis.
- Project:** Molecular Imaging Modalities in Alzheimer's Disease: Current Advances in PET, MRI, CT, SPECT, and fMRI for Biomarker-Based Diagnosis and Disease Monitoring.

Molecular & Clinical Diagnostics Intern

May 2025- July 2025

Department of Laboratory Medicine, Yatharth Super Speciality Hospitals

Noida, Uttar Pradesh

- Conducted AMR profiling on 200+ clinical specimens, applying molecular diagnostics (GeneXpert MTB/RIF, MTB/XDR) for rapid detection and drug resistance profiling of Mycobacterium tuberculosis, strengthening turnaround-critical TB diagnosis workflows.
- Led a **research project**, "Clinical Evaluation of Multimodal Diagnostic Approaches and Drug Resistance Profiling of *Mycobacterium tuberculosis*," integrating molecular and conventional diagnostics to improve TB detection accuracy and support AMR surveillance.

SKILLS

Life Sciences & Industry Expertise: Drug Development, Clinical Research, Regulatory Affairs, Biopharmaceuticals (Biologics, Biosimilars & Generics), Primary Market Research, Key Opinion Leader (KOL) Engagement

Data Analytics & Scientific Research: R (DESeq2, ggplot2, tidyverse, dplyr), Statistical Analysis (Stat-Ease Design Expert), Data Visualization, Scientific and Medical Literature Review, R-Shiny, Microsoft Excel (Advanced), Galaxy, AI literacy, MS Powerpoint.

Professional Skills: Problem Solving, Stakeholder Management, Scientific Communication, Project Management, Leadership.

EDUCATION

MSc Biotechnology, Amity University, Noida

Aug 2024 – June 2026

CGPA- 9.78; Awards: Gold Medalist, Merit Scholarship, Special Mention Award, Dean Student Welfare Award in Leadership, Best Delegate

Thesis: Integrative Analysis of Cachexia-Associated Genes to Predict Patient Survival and Tumor-microenvironment characteristics in LUAD

BSc (Hons.) Biotechnology with specialization in Medical Biotechnology, Amity University, Noida

Aug 2021– June 2024

CGPA- 9.55; Awards: Gold Medalist, Merit Scholarship, Best Strategic Thinking Award

Thesis: Comparative Analysis of Xylanase Production from *Aspergillus tubingensis* fungal strains AUMS60 and AUMS64

PROJECTS & PUBLICATIONS

- Cell Type Snapshot Explorer:** A reproducible R- Shiny web application/dashboard to explore cell-type-specific gene markers and visualize expression patterns on UMAP embeddings in single-cell RNA-seq datasets.
- Patient-centered care for cancer therapeutics.** In *Next-Generation Onco-Therapeutics* (pp. 355-384). Academic Press.
- Trends and Innovation in Colorectal Cancer Diagnosis and Treatment: The Role of Machine Learning, Artificial Intelligence, Stem Cells, and Nanodrug Delivery.** In *Advancements in Colorectal Cancer* (pp. 182-204). CRC Press.

ACHIEVEMENTS & EXTRACURRICULAR ACTIVITIES

- Selected for **XXI International Summer School on Molecular Biology, Biotechnology and Biomedicine**, by Odesa I.I. Mechnikov National University, Ukraine, supported by DAAD, Hannover Medical School and German Federal Ministry of Education and Research.
- Selected for **Period with Pride Fellowship (Ablefort Initiative):** Analyzed menstrual health interventions and policies across 5+ countries to develop a menstrual health practice guide for systems-level solutions to address menstrual health problems.
- Leadership Experience:** **Aspire Leader Fellow(Aspires Institute)**, Research Mentor (Healix Biolabs), Climate Leader (Liquid Trees), Team Head (Debate Disciples), Editor-in-Chief (TDDC Times), **Project Member- Mastering Science Communication (iGEM)**