

Smriti Suman

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Objective						
Detail-oriented and results-driven Quality Analyst with proven expertise in chemical analysis, quality control, and production optimisation in the food industry . Experienced in research, data analysis, and process enhancement , with a strong focus on innovative product development . Seeking to leverage analytical skills and technical knowledge in ensuring superior product quality and compliance .						
Internship						
IIT Bombay		Research Intern		03/2026- Present		
<ul style="list-style-type: none"> Contributing to research on vertical farming systems with a focus on improving the nutritional quality and resource efficiency of produce Supporting the nutrigrove project by conducting nutritional and quality analysis of plant samples Performing laboratory analysis, including pH, NPK, and sample preparation with high data accuracy standards Maintaining structured documentation and ensuring reliability of experimental data for research outcomes 						
Moreish Foods Ltd		Quality Intern		05/2023 – 07/2023		
<ul style="list-style-type: none"> Conducted quality analysis of bakery products—Bread, Rusks, and Cookies—to ensure compliance with FSSAI and ISO standards Reduced rejection rates by 12% by utilising chemical and sensory evaluation techniques to monitor and improve product quality Increased yield by 10% by analysing production processes, identifying inefficiencies, and recommending process enhancements Collaborated with the quality assurance team to ensure hygiene standards and adherence to Good Manufacturing Practices (GMP) 						
Education						
Lovely Professional University, Phagwara		MSc (Ag) Horticulture		7.0 CGPA	06/2025	
Jharkhand Rai University, Ranchi		BSc Agriculture		75.3%	06/2023	
Publications & Patents						
<ul style="list-style-type: none"> Published Review Paper: <i>Dragon Fruit: Exploring Bioactive Compounds and Their Promising Role in Functional Food Innovation and Value-Added Products</i> in Q1 Journal of Elsevier (Journal of Food Composition and Analysis) Granted Patent: “Papain-based Nano Edible Films for Extending Shelf Life of Fruits and Vegetables” by Government of India 					2025	
					2024	
Projects						
Master’s Dissertation		Lovely Professional University		11/2023 – 02/2025		
<ul style="list-style-type: none"> Formulated and optimised blended ready-to-serve (RTS) beverages using dragon fruit to enhance flavour, texture, and nutritional value, ensuring market viability and achieving a 15% improvement in sensory scores Conducted comprehensive chemical analyses (Antioxidant, Flavonoids, Sugar content, Phenols) to ensure product consistency, improve nutritional quality, optimise formulation, and extend shelf life by 20% Designed and executed sensory evaluation trials to assess consumer preferences for taste, appearance, and acceptability Utilised statistical tools (ANOVA, SPSS, z-test, CRD) to analyse experimental data and make data-driven recommendations 						
Rural Agricultural Work Experience (RAWE)		Jharkhand Rai University		02/2023 – 04/2023		
<ul style="list-style-type: none"> Acquired expertise in crop cultivation and management, with hands-on experience in soil sampling, testing, and fertility Implemented precision fertilisation strategies to optimise crop health, resulting in a 10% improvement in yield consistency Collaborated with local farmers to promote sustainable farming practices, delivering targeted training on modern agricultural techniques, enhancing soil fertility, and increasing adoption rates by 15% 						
Experiential Learning Program (ELP)		Jharkhand Rai University		07/2022 – 12/2022		
<ul style="list-style-type: none"> Acquired hands-on expertise in floriculture, landscape design, and mushroom spawn production, enhancing practical understanding of sustainable agriculture techniques and eco-friendly resource management strategies Applied sustainable landscaping principles to optimize resource efficiency and promote eco-friendly cultivation practices Developed innovative approaches to floriculture management, contributing to improved plant growth and sustainability 						
Extra-Curricular Achievements and Certificates						
<ul style="list-style-type: none"> National Finalist, ranking in the top 10 out of 1500+ participants in Eco Hackathon - IoT-based Smart Soil Monitoring System, hosted by IIT BHU Microsoft Excel 365 Certification, Grant Thornton Bharat Data Analysis with R Program Organic Farming for Sustainable Agriculture, NPTEL 					2025	
					2024	
					2024	
					2023	
Hobbies						
<ul style="list-style-type: none"> Research & Analysis: Passionate about reading and analysing research papers on foods and agro-based innovations, with a focus on contributing to academic advancements and developing innovative, data-driven solutions Food Innovation: Interested in exploring product development ideas, quality improvement strategies, and food safety practices with a focus on consumer satisfaction. 						
Skills						
Data Analysis	Advance Excel	Sensory Evaluation	Nutritional & chemical analysis	Research	Quality Control	Product Development