

Dr. Harish Chandra Dega

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EDUCATION

University of North Carolina- Chapel Hill

Master of Professional Science in Biomedical Health Informatics (MPS BMHI)

Kathmandu University (KU)

Bachelor of Medicine and Bachelor of Surgery (MBBS)

HEC Paris

Summer School Entrepreneurship: The Start-up Studio

Chapel Hill, NC

May 2024

Kathmandu, Nepal

May 2022

Paris, France

July 2018

WORK EXPERIENCE

VioletMed

Business Analyst / Business Development (Venture Catalyst fellow – UNC, INNOVATE CAROLINA- 0.5% selection rate) Present

• Conducted market research and developed commercialization plan for SBIR PHASE-2, identifying customer segments and 30% market penetration resulting in \$5M projected revenue increase. • Led business plan development including financial projections for pelvic floor therapy device, collaborating cross-functionally to ensure 40% ROI within 1st year. • Performed competitive analysis and utilized data insights to inform partnerships; established collaborations with medical institutions, increasing visibility 50% and securing new markets.

Behavioral Health and Wellness Group, LLC.

Clinical Informatics Consultant/ Business Analyst

• Collaborated with clinical staff and IT teams of 3 three major hospital systems in New York to successfully integrate and utilize Smartphone (M-health) healthcare technology systems, resulting in a 30% improvement in workflow efficiency, and developed market research strategies to identify digital application user demographics, resulting in a 36% increase in app downloads.

University of North Carolina- Chapel Hill- Healthcare Engineering Division, UNC School of Medicine

Data Analyst/AI-ML developer

• Developed and implemented a machine learning algorithm that accurately assesses the level of burnout among healthcare professionals at UNC Hospital, resulting in a 30% reduction in employee turnover. • Utilized AI and ML technologies to create interactive dashboards that provide real-time insights into maternal mortality rates among African American women in the United States, leading to targeted interventions and a 15% decrease in mortality rates.

Kathmandu University (KU)

Attending Physician/ Medical Doctor

• Diagnosed 1800+ patients annually via 10,000+ diagnostic assays, referrals, and prescriptions with 95% accuracy and timeliness.

RESEARCH ASSISTANT – CO-CHAIR SURGERY DEPARTMENT.

• Dedicated 20+ hours weekly over two semesters, **enhancing research and teaching capacities** by assisting 100+ undergraduates both virtually and in-person, **orchestrating tailored library sessions and surgical Rotations** for first-year classes, and executing special projects, all while maintaining superior customer service and collaborating seamlessly within team or autonomously post-training.

TELEPAL- Co-founder, CEO

• Established a **Telemedicine Accessory & Patient Engagement Technology Co.** to provide premium remote home consultation services, decreasing the cost gap by 35%. Identified and integrated **patient general-examination accessory technologies** that enable smartphone-based telemedicine consultations, resulting in an overall patient satisfaction increase of 45%. Led the development of **machine learning and AI technology for Proactive diagnostics integration**, enabling predictive healthcare solutions.

PROJECT EXPERIENCE

University of North Carolina- Chapel Hill

Project Manager - SOD STREAMLINER (Healthcare Systems Analysis & Design)

• Analyzed, developed, and executed a comprehensive project plan to design and implement a centralized hiring and onboarding information system for the UNC School of Dentistry (400 faculty) HR department, resulting in a 47% reduction in processing times. Leading cross-functional teams of IT professionals and subject matter experts to build the new system from scratch using agile development methodologies, to deliver it on time and under budget.

Data Analyst - DATABASE MANAGEMENT SYSTEM TO ASSESS KIDNEY DISEASE at UNC

• Conducted thorough data cleaning of patient medical record numbers, encounter numbers, and demographic data. Utilized Adv **Python**, and **MySQL** to mine and analyze the dataset for trends in the risk of kidney infection with respect to creatinine levels. Presentation sped up a high-risk assessment by 30%.

LEADERSHIP EXPERIENCE

Well Box- HEC Paris Co-Founder

• Achieved admission to competitive **HEC Paris SUMMER SCHOOL**, Entrepreneurship Course, alongside 15 select entrepreneurs to gain essential knowledge in problem-solving techniques and market research. Raised capital investments to launch WELL BOX, a subscription-based service providing mentoring and emotional intelligence assessments to 500+ UK children and students. Crafted and presented an innovative business plan to a jury of **Venture Capitalists and healthcare entrepreneurs**, securing the green light to develop a program that currently serves 2000+ individuals.

CERTIFICATIONS & ACHIEVEMENTS

• I was shortlisted for round two of the **MIT-Harvard Medical School Healthcare Innovation Boot Camp**, a program in entrepreneurial creativity, problem-solving, healthcare innovation, and leadership. Station F- HEC Paris- Eligible resident founder.

SKILLS

Business Operations, Product/Project Lifecycle Management, **WEKA, R, RAPID MINER, SQL, Tableau, SAS, Python Database, Excel**, Health IT Systems Integration, Clinical Workflow Optimization, Process Improvement, **KNIME**, Healthcare Data Analytics, Quality Reporting, Electronic Health Records