

Dr. Harish Chandra Dega

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SKILLS

Programming: Python, WEKA, R/RStudio, RAPID MINER, SQL, Tableau, SAS, Python Database, Excel, Power BI, Orange, KNIME.

Health Informatics Skills: Health IT Systems Integration, Clinical Workflow Optimization, Process Improvement, Healthcare Data Analytics, Quality Reporting, Electronic Health Records

EDUCATION

University of North Carolina- Chapel Hill

Chapel Hill, NC

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

May 2024

- **Course Work:** Information Analytics (Machine Learning and Data Science), Programming for information science (Python), Database Systems in Healthcare (MySQL), Systems Analysis in Healthcare, Quality Improvement (Lean Six Sigma), Electronic Health Records, Applied Health Informatics in Complex Health Care Systems

Kathmandu University (KU)

Kathmandu, Nepal

Bachelor of Medicine and Bachelor of Surgery (MBBS)

May 2022

HEC Paris

Paris, France

Summer School Entrepreneurship: The Start-up Studio

July 2018

WORK EXPERIENCE/ PROJECT EXPERIENCE

VioletMed, LLC. (UNC Kickstart Ventures)

Chapel Hill, NC

Data Analyst ([Venture Catalyst Fellowship](#))

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.

New York, NY

Data Analyst

May 2023- Present

- 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.

UNC- Chapel Hill- Healthcare Engineering Division, UNC School of Medicine

Chapel Hill, NC

Data Analyst/AI-ML developer

August 2023- Present

- 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 USA, leading to targeted interventions and a 15% decrease in mortality rates.

- **Crystal Clear Predictions (Python-Linear Regression):** Diamond pricing analysis identified key drivers; 95% accurate prediction algorithm.
- **Medi "SQL" Insight:** Analyzed expansive patient data; enhanced detection of at-risk patients by 30%.
- **Grade-A Gains (Python-Multilinear regression):** Uncovered compensation dynamics across academics; focused on gender pay.
- **Fashion Figures (Python-Multilinear regression):** Uncovered key retail sales relationships in men's fashion.
- **Healthcare Fraud Detection:** Uncovered fraud with predictive models and anomaly detection.
- **Gender Graphs(R/RStudio):** Computed statistics and visualizations revealing population shifts.
- **Sales Forecasting Mastery (KNIME):** Developed ML models forecasting retail product sales.
- **Segmentation Odyssey (WEKA):** Identified unique customer segments via clustering.

PROFESSIONAL CERTIFICATIONS/ ACHEIVEMENTS

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. **CO-FOUNDER- WELLBOX, TELEPAL**