JIGNESH PATEL

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Health Informatics • Data Analytics • AI in Healthcare • Medical Coding

Professional Summary

Health informatics graduate leveraging clinical pharmacy background to bridge healthcare and data science. Skilled in EHR data analytics, machine learning, and predictive modeling. Experienced in deep learning, healthcare coding, and AI applications for clinical decision support. Proficient in integrating digital health tools and optimizing workflows for data-driven, patient-centered outcomes.

Technical Skills

Languages & Tools:	Python, SQL, Tableau, Power BI, MS Excel, Advanced MS Office
Frameworks:	TensorFlow, Keras, MONAI, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
Healthcare Systems:	EHR/EMR, HL7/FHIR Standards, LOINC, SNOMED CT, ICD-10, CPT
Core Competencies:	Predictive Modeling, Data Cleaning, Deep Learning, Data Visualization, AI Ethics, Cloud Data Integration

Education

University of North Texas (UNT) — Denton, TX   *Expected May 2026*
Master of Science in Health Informatics — Coursework: Health Data Analytics, AI in Medicine, Database Design, Machine Learning, EHR Systems

    SAL Institute of Pharmacy, GTU — Ahmedabad, India   *2021*
Bachelor of Pharmacy (B.Pharm) — CGPA: 7.27/10

Key Projects

Deep Learning Health Risk Classifier — TensorFlow/Keras
Developed multi-layer neural network using clinical datasets to predict patient risk scores. Optimized accuracy (70.7%) via model tuning, regularization, and dropout adjustments. Automated data preprocessing pipelines for scalability.

    Retina Image Classification using MONAI — Diabetic Retinopathy Detection
Trained CNN-based transfer learning model with MONAI for retina image classification. Achieved precise detection using balanced dataset, RGB normalization, and data augmentation. Evaluated metrics: accuracy, precision, recall, F1-score.

    AI-Based Clinical Risk Prediction — EHR Data Analytics
Created data-driven pipeline integrating structured EHR data for patient risk stratification. Tested multiple deep learning architectures, leveraging Gower distance and silhouette analysis for clustering and interpretability.

    Tableau Health Dashboard — MEPS Data Analysis
Built interactive Tableau dashboards to visualize national health expenditure trends and chronic disease patterns. Implemented parameter filters and KPIs to support policy decisions.

Professional Experience

Pharmacist — Epic Hospital, Ahmedabad, India   Dec 2023 – Jul 2024
- Digitized pharmacy workflows by integrating EHR-based medication management, reducing prescription errors by 20%.
- Designed Excel-based inventory automation, minimizing stock variance by 15%.
- Trained staff in safe medication handling, patient education, and regulatory compliance.

    Pharmacist — Saraswati Hospital & Shubh Medical Store, Ahmedabad, India   Oct 2021 – Nov 2023
- Processed over 15,000 prescriptions while maintaining 99% accuracy in digital logs.
- Collaborated with clinicians for medication reconciliation using electronic systems.
- Enhanced patient adherence through counseling and mobile-based reminders.

Certifications

Human Factors in AI — Duke University, Coursera   Verify
SQL for Data Science — University of Colorado Boulder   Verify
Introduction to Clinical Data — Stanford University   Verify

Core Strengths

- Clinical Workflow Optimization
- Predictive Analytics & Modeling
- EHR / HL7 / FHIR Integration
- Healthcare Data Governance

- Deep Learning & AI Model Tuning
- SQL Queries & Database Design
- Cloud Data Pipelines (Azure/GCP)
- Strong Communication & Team Collaboration