

Dr. Sushant Tapase

Health AI Portfolio | github.com/Dr-Sushant |
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Objective

To integrate clinical knowledge with emerging skills in biomedical data science and AI to contribute to responsible, impactful healthcare solutions. I am driven to bridge medicine and technology through projects that emphasize transparency, usability, and ethical innovation across clinical, research, and public health domains.

Education

M.Tech - Biomedical Data Science (2025-2027, Admitted) Ecole Centrale School of Engineering, Mahindra University

MBA - Healthcare & Hospital Management (Ongoing, Expected 2026) IGNOU

Advanced Diploma - Clinical Research & Pharmacovigilance (2020) Institute of Clinical Research India (ICRI)

MBBS - Bachelor of Medicine and Surgery (2006) Lokmanya Tilak Municipal Medical College, Sion, Mumbai

Technical Skills

Programming: Python, Regular Expressions (Regex)

Libraries/Tools: spaCy, scispaCy, NLTK, Pandas, Jupyter, Git

Concepts: Clinical NLP, Rule-Based Systems, Data Pipelines, AI Ethics Domain Knowledge: EMR

Workflows, Medical Coding (HCC), GCP, ICD-10

Certifications

GATE Qualified - 2025 (Biotechnology)

Python for Everybody Specialization - Coursera

Ongoing: AI Ethics, Machine Learning, R programming and NLP Foundations

Project Experience

HCC Risk Code Extractor

GitHub: github.com/Dr-Sushant/hcc_code_extractor_project

A clinical NLP tool for extracting Hierarchical Condition Category (HCC) codes from unstructured clinical text. - Developed using Python, spaCy, regex, pandas, and Jupyter

- Designed for ethical use in population health and

insurance risk scoring

- Demonstrates responsible, transparent NLP for clinical data applications

Clinical & Research Experience

Clinical Chart Reviewer - IKS Health

- Reviewed EMRs for HCC/ICD accuracy for US-based healthcare systems - Delivered compliant, high-quality documentation in HIPAA- secure systems - Awarded Best CCR for 3 consecutive quarters (accuracy & turnaround)

Clinical Research Intern - hVIVO, London

- Supported respiratory clinical trials and pharmacovigilance documentation - Assisted with protocol compliance and regulatory submissions
- Gained hands-on experience in GCP and real-world evidence workflows

Interests & Purpose Alignment

Ethical AI for Human Wellbeing

Narrative-Based Mental Health Advocacy

Leadership Development through Empathy and

Technology Responsible Use of Clinical NLP

Digital Safety in Health Communities