

Ujwala Sunkanapally

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Professional Summary

Graduate Student in Health Informatics at George Mason University with a strong background in data analytics, machine learning, and healthcare research. Passionate about leveraging data to drive impactful health outcomes. Proficient in Python, R, SQL, and statistical analysis with hands-on experience in predictive modeling and clinical research.

Work History

LEAD Teaching Assistant – Mason Life, George Mason University
(Aug 2024 – May 2025)

- Collaborate with staff to provide academic and social support to students with intellectual and developmental disabilities.
- Facilitate inclusive learning and participation in college activities.

Support Staff Assistant – Mason Life, George Mason University
(Aug 2023 – Aug 2024)

- Supported students with disabilities in academic tasks and personal development.
- Promoted inclusive community engagement.

Assistant Professor – KLR Pharmacy College (Jul 2021 – Mar 2023)

- Taught courses in Clinical Toxicology and Pharmacotherapeutics.
- Mentored students and led academic assessments.

Internship Student – Singareni Collieries Company Limited Hospital
(Jul 2020 – Jun 2021)

- Participated in ward rounds and provided patient counseling.
- Recognized for outstanding performance (4.8/5 rating).

Publications

- Cissus Succulent and Schinus Molle - Invitro Anti-Helminthic Activity Against Haemonchus Contortus, International Journal of Current Pharmaceutical and Clinical Research, Jan 2021 – Jan 2022.
- A Stronger Anti-Amoebic Effect on Entamoeba Histolytica: Heterophragma Adenophyllum, International Journal of Pharmacy Practice and Drug Research, Feb 2022 – Jan 2023.

Projects

- **CAPSTONE PROJECT:** Low-Cost PCOS Prediction Using Machine Learning (Jan 2025 – May 2025)
 - Developed models using clinical and hormonal markers for PCOS diagnosis without imaging. Achieved ROC-AUC of 0.94 using Random Forest, Logistic Regression, and Naive Bayes.
- Predicting Diabetes Diagnosis Using ML (Aug 2024 – Dec 2024)

Skills

- Python
- R Programming
- SQL
- SAS
- MATLAB
- Statistical Analysis
- Data Visualization
- Machine Learning
- Microsoft Office Suite

Education

- Masters in health informatics – George Mason University, Fairfax, VA

Graduation: May 2025 | GPA: 3.9/4.0

- Doctor of Pharmacy – KLR Pharmacy College, Khammam, Telangana, India

Graduation: June 2021 | GPA: 81%

Certifications

Internship & Job Preparation Training,

Internshala Trainings – April 2025

(4-week program on career readiness and professional skills)

SAS Programming Certificate, Internshala Trainings – March 2025

(6-week training in SAS programming and data analysis)

Advanced PG Diploma in Clinical

Research & Pharmacovigilance, ClinoSol

Research Pvt. Ltd. – Sept to Dec 2021

- Built classifiers (J48, Logistic Regression, Random Forest) on patient data to detect diabetes risk. J48 yielded the most balanced performance.
- Medical Image Analysis on Breast Cancer (Aug 2024 – Dec 2024)
 - Developed a breast cancer detection system using image processing and deep learning techniques.
- Diabetes Prediction (Jan 2024 – Apr 2024)
 - Built a ML model for diabetes prediction in women using clinical variables like glucose, BMI, and insulin.
- Analysis of Inova Fairfax Hospital Readmissions (Aug 2023 – Dec 2023)
 - Analyzed readmission rates for HF and COPD and recommended efficiency improvements.
- **THESIS:** An Observational Study on Polycystic Ovarian Syndrome in a Coalmine Hospital (Jul 2019 – Jan 2020)
 - Conducted a comparative study on PCOS at Singareni Collieries Hospital, analyzing risk factors and complications to understand clinical trends in a coal mining population.