

EDARA AJAY REDDY, M.D.

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PROFESSIONAL SUMMARY

Healthcare data scientist and medical professional specializing in health informatics and analytics. Experienced in developing machine learning models, conducting statistical analyses, and implementing data-driven healthcare solutions. Combines clinical expertise with advanced analytical skills to derive actionable insights from complex healthcare datasets.

EDUCATION

University of North Carolina at Charlotte

Expected December 2025

Master of Science in Health Informatics and Analytics

Relevant Coursework: Healthcare Analytics, Data Visualization, Statistical Analysis, Machine Learning in Healthcare, SAS Programming

Lyceum Northwestern University

August 2022

Doctor of Medicine (M.D.)

GWA: 76.85%

- Led clinical research projects and data analysis initiatives
- Presented research findings at medical conferences

Angeles University Foundation

April 2017

Bachelor of Arts in Psychology

GWA: 87.55%

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, SAS, R
- **Data Science Tools:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
- **Statistical Analysis:** Regression Analysis, Hypothesis Testing, Multivariate Analysis
- **Healthcare Analytics:** EHR Systems, Clinical Data Analysis, Medical Coding
- **Visualization Tools:** Power BI, Tableau, SAS Graphics, Advanced Excel

DATA SCIENCE PROJECTS

Global Tuberculosis Data Analysis

2024

Lead Statistical Analyst

- Led comprehensive analysis of WHO's global tuberculosis dataset using SAS
- Achieved 87.29% variance explanation through multiple regression analysis
- Implemented logistic regression models for TB risk prediction
- Conducted advanced statistical testing including t-tests and chi-square analysis
- Created statistical visualizations using SAS Graphics for trend analysis

Mental Health Prediction System

2024

Machine Learning Engineer

- Developed ML models for depression and anxiety prediction using Python
- Created automated data preprocessing pipelines for clinical data
- Implemented feature engineering for improved model performance
- Built interactive dashboards for healthcare professionals

- Achieved significant accuracy in mental health risk assessment

Climate Change Impact Analysis

2024

Data Scientist

- Analyzed global CO2 emissions data using statistical methods
- Created comprehensive visualizations of climate trends
- Developed predictive models for emissions forecasting
- Conducted time series analysis of environmental data
- Generated actionable insights for policy recommendations

PROFESSIONAL EXPERIENCE

Duty Medical Officer (DMO)

November 2022 - October 2023

Sri Sai Hospital, India

- Implemented data-driven approaches for patient care optimization
- Developed automated systems for clinical data collection
- Created analytical reports for treatment outcome analysis
- Led team initiatives for healthcare data management

Medical Intern

August 2021 - July 2022

Region 1 Medical Center, Philippines

- Managed clinical data collection and analysis systems
- Developed standardized protocols for data entry and validation
- Created statistical reports for patient outcomes
- Collaborated on healthcare analytics initiatives