

# ANAYA GANDHI

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## EDUCATION

### MASTER OF SCIENCE IN DATA SCIENCE

University of Edinburgh  
2024 - 2025

### BACHELOR OF TECHNOLOGY IN MECHATRONICS

Mukesh Patel School of Technology Management & Engineering  
2019 - 2023

## CERTIFICATION

### MACHINE LEARNING

Coursera - Stanford University

### CAPSTONE: RETRIEVING, PROCESSING, AND VISUALIZING DATA WITH PYTHON

Coursera - University of Michigan

### PYTHON DATA STRUCTURES

Coursera - University of Michigan

### DATA SCIENCE MATH SKILLS

Coursera - Duke University

### POWER BI: INTEGRATING AI AND MACHINE LEARNING

LinkedIn Learning - Helen Wall

## SKILLS

### DATA SCIENCE & MACHINE LEARNING

Python (PyTorch, scikit-learn), SQL, Pandas, NumPy, R

Statistical modeling & inference, hypothesis testing, supervised learning (regression, classification), feature engineering, experiment design, cross-validation, model evaluation

### TOOLS & PLATFORMS

Git/GitHub, Docker, Power BI, Tableau, Google Cloud Platform, Visual Molecular Dynamics (VMD)

## EXPERIENCE

### RELIANCE FOUNDATION YOUTH SPORT

December 2023 - June 2024

- Collaborated closely with Indian Olympic track athletes to analyze their biomechanics, pre-competition stats, and in-competition stats to identify performance improvement opportunities.
- Developed comprehensive training plans and recommendations tailored to each athlete's individual needs and data-driven insights, leading to significant performance gains.
- Applied machine learning algorithms to identify meaningful patterns and trends from athlete data, enabling data-driven coaching and training strategies.

### PRATECH BRANDS, HYUGALIFE

May 2023 - November 2023

- Led a price elasticity project, conducting in-depth data analysis to understand the relationship between price changes and consumer demand for a diverse product portfolio of over 500 products.
- Developed a predictive pricing model using advanced machine learning techniques, enabling the company to optimize pricing strategies and maximize sales.
- Presented the predictive pricing model to senior management, successfully demonstrating its impact on revenue growth and market share expansion, resulting in an 80% increase in sales for the top 500 products.

## PROJECTS & RESEARCH

### GENERATIVE MODELING OF PROTEIN DYNAMICS WITH VAE'S 2025

Designed and trained variational autoencoders to model protein dynamics from molecular simulations, using MoLearn and custom pipelines to evaluate the possible structures a protein can take

### AUTOMATIC SPEECH ANALYSIS FOR DYSARTHRIA RECOGNITION AND ALS DIAGNOSIS 2025

Developed an ML model using Wav2Vec 2.0 and clinical vocal features to detect dysarthria and predict ALS severity, achieving a 97% F1-score and enabling early, non-invasive diagnosis from speech alone.

### MACHINE LEARNING APPROACHES FOR ENHANCING BREAST CANCER PROGNOSTIC MODELS 2024

This study reviews the current literature available on feature selection, dimensionality reduction, and clinical applications, highlighting the current shortcomings in current methods and suggesting future paths, such as explainable AI and multi-omics integration.