

# Viral Biyawala

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Portfolio | [github.com/viralbiyawala](https://github.com/viralbiyawala) | [linkedin.com/in/viralbiyawala](https://linkedin.com/in/viralbiyawala)

## Education

### Indian Institute of Information Technology Surat

Dec 2021 – May 2025

- **Bachelor of Technology** - Computer Science and Engineering **CGPA: 9.33/10.0**
- **Coursework:** Database Management System, Probability and Statistical Analysis, Linear Algebra, Data Structures & Algorithms, Operating System, Automata & Formal Language, Object Oriented Programming

## Experience

### AI/ML Intern, Build Macro – Surat, Gujarat

Jul 2024 – Sep 2024

- Engineered a robust **AI solution** employing **OCR** and **YOLO** technologies to automatically identify windows, doors, and walls from floor plans
- Reduced the manual processing time from **1 hour** to **5 minutes** by automating object detection and area calculations
- Deployed the system on **Google Cloud Platform** with **85%** accuracy in detecting architectural elements

## Publications

- **Proposed** "A two-phase data-driven approach for detection of solar PV and EV infrastructure in smart grid" Under Review (IEEE Transactions on Smart Grid)  
R. K. Ahir, **Viral Biyawala**, S. Sikotra

## Projects

### Stanford LLM Tutor



- Extracted the Stanford LLM course, extracting **565** key value pairs as training data for the **AI Bot**
- Developed the AI Bot using GPT 2 with **FAISS** for efficient query matching using **L2 Distance**

### MindCare



- Collaborated with a team of **3** to ensure scalability using **Django**, **MongoDB**, React, and TailWind CSS
- Increased customer engagement by **recommending** the top **3** yoga poses based on **quiz** responses
- Applied Machine Learning to analyze user posts, achieving **94% recall** in identifying **suicide-related** posts

### Attrition Analysis - Microsoft Power BI



- Analyzed employee attrition, visualizing **Business Metrics** and key **KPIs**, with a **16.1%** overall attrition rate
- Highlighted new joiners (**1 year**) had a **31.58%** attrition rate and those with **10 years** had a **0.78%** attrition rate
- Revealed that **74.52%** of employees experiencing attrition consistently worked overtime hours

## Skills

**Languages:** Python, SQL, C++, YAML, JavaScript

**Technologies:** Microsoft Power BI, Google Cloud Platform, Tableau, Git, Django, Flask, PyTorch, PostgreSQL

**Machine Learning:** Deep Learning, Computer Vision, Natural Language Processing (NLP), MLOps, Statistics, Testing

**Soft Skills:** Communication, Teamwork, Leadership, Research, Group Discussion

## Certificates

Data Scientist by DataCamp |

Statistics for Data Science by Coursera |

SQL Associate certificate by DataCamp |

Associate Data Analyst by DataCamp |

Associate Data Engineer by DataCamp |

Introduction to Web Development by Coursera |

## Achievements

- Ranked **300<sup>th</sup>** out of 975 participants in Kaggle BirdClef 2024, with a ROC value of **62.62%**
- Maintained **500+** daily problem streak on LeetCode and achieved a **3\* rating** on CodeChef with a max rating of **1622**
- Earned **350,000+** XP, completed **7** projects, and finished **14** tracks on DataCamp with top performance