

# Viral Biyawala

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[Portfolio](#) | [Github](#) | [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 – Canberra, Australia

Jul 2024 –Sep 2024

- Engineered an **AI solution** utilizing **Tesseract-OCR** and **YOLOv9** to automate the detection of architectural objects
- Reduced the processing time up to **91%** by automating object detection and area calculations for clients
- Deployed the system on **Google Cloud Platform**, achieving **85%** accuracy in detecting architectural elements
- Technology used: Python, Google Cloud Platform, RESTful API, Git, Roboflow, OpenCV

## Publications

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

## Projects

### Stanford LLM Tutor



- Extracted the Stanford LLM course, processed **565** key value pairs for knowledge base as training data for the **AI bot**
- Developed the bot using **GPT-2** and **FAISS** vector database for efficient query matching using **L2 Distance**

### MindCare



- Directed a team of **3** to develop backend infrastructure to solve mental health issues using **Django** and **MongoDB**
- Developed a personalized algorithm for **recommending** the top **3** yoga poses based on **quiz** responses
- Applied **Naive Bayes Classifier** 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

Python, SQL, C++ , YAML, JavaScript, PHP, C

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

Deep Learning, Natural Language Processing (NLP), MLOps, Computer Vision, Hypothesis Testing

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

- Secured **302<sup>nd</sup>** position out of **2500+** teams, comprising a total of **75000+** participants in the Amazon ML Challenge
- Ranked **300<sup>th</sup>** out of **975** teams in **Kaggle BirdClef 2024**, with a ROC value of **62.62%**
- Maintained a **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