Viral Biyawala

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Portfolio | Github | 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**

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

Projects

Stanford LLM Tutor
- Extracted the Stanford LLM course, processed **565** key value pairs for knowledge base as training data for the **AI bot**
- Created 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

LifeSaver
- Developed a web application for blood donors and hospitals featuring a **3-tier** login system - donor, hospital, admin
- Built an Admin Dashboard enabling simultaneous activity tracking and OTP-based user verification of **10+ users**
- Designed the frontend using HTML and Tailwind CSS, integrated SQLite and Flask for the backend, enhancing UX

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

Programming & Web Development: Python, C++, SQL, JavaScript, PHP, C, HTML, CSS, JQuery, YAML
Tools & Frameworks: Microsoft Power BI, Google Cloud Platform, Tableau, Git, Django, Flask, PyTorch, PostgreSQL, LLMs
Data Science & ML: Deep Learning, Natural Language Processing (NLP), MLOps, Computer Vision, Hypothesis, LangChain

Certificates

Data Scientist by DataCamp | 🔗 Associate Data Analyst by DataCamp| 🔗
Statistics for Data Science by Coursera | 🔗 Associate Data Engineer by DataCamp | 🔗
SQL Associate certificate by DataCamp | 🔗 Introduction to Web Development by Coursera | 🔗

Achievements

- Secured **302**[nd] position out of **2500+** teams, comprising a total of **75000+** participants in the Amazon ML Challenge
- Ranked **300**[th] 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

Relevant Courses

- **Computer Science:** Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management Systems, Automata & Formal Language, Probability and Statistical Analysis, Linear Algebra