

# Anup Raj Gudisse

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## EXPERIENCE

**Data Analyst Intern, Chicago Transit Authority** May 2024 – present | Chicago, US

- **Developed a Training Information System web application** using **Django**, streamlining training operations for CTA Bus Maintenance, resulting in a 70% improvement in planning efficiency and a 50% reduction in scheduling errors.
- **Designed and implemented an ETL pipeline** with **Python** and **Pandas**, processing and cleaning 30+ years of historical data, which increased data accuracy by 35% and reduced manual data validation efforts by 40%.
- **Optimized PostgreSQL database models** to manage over 100,000 training records, improving query performance by 50% and reducing data retrieval time from minutes to seconds.
- **Created interactive dashboards** using **Plotly**, visualizing key metrics such as training completion rates, attendance, and participation trends, enabling data-driven decisions and improving resource allocation by 25%.
- **Built a user-centric web interface** with **Django**, integrated seamlessly with **PostgreSQL**, reducing registrar workload by 60%, eliminating paper-based workflows, and enhancing productivity for 100+ users.

**Web Development Intern, Internshala** Aug 2022 – Dec 2022 | Hyderabad, India

- Designed and implemented responsive user interfaces using modern JavaScript frameworks (**React.js**), **HTML5**, and **CSS3**, resulting in a 31% increase in user satisfaction and a 12% boost in audience engagement.
- Developed and optimized object-oriented code in **Node.js**, ensuring 100% compliance with industry and company standards, which improved code maintainability and scalability by 25%.
- Analyzed and applied multithreading, concurrency, and design patterns to enhance application performance, reducing processing time for high-traffic operations by 20%.

**AI-ML Virtual Internship, AICTE** Mar 2022 – May 2022

- Worked with a team of 4 interns to design, train, and optimize a Convolutional Neural Network (CNN) for real-time sign language image recognition using Python, TensorFlow, and OpenCV, achieving 86% accuracy.
- Collaborated on data collection, preprocessing, and annotation to ensure high-quality training data for the model.

## SKILLS

**Programming & Frameworks:** Python, SQL, Java, JavaScript, HTML, CSS, Django, Flask, React.js, TensorFlow, Pandas, NumPy, scikit-learn, OpenCV, AWS

**Data Visualization/Data Tools:** PostgreSQL, PgAdmin, dplyr, Plotly, MS Excel, Tableau, Power BI, matplotlib, Seaborn

**Tools & Platforms:** Git, VS Code, Jupyter Notebook, Spyder, Jira, Adobe Premiere Pro, Lightroom, WordPress

## PROJECTS

**Visi-solve, Recognizing math equations from handwritten images & solving them (Python, CNN, OpenCV)**

- **Developed a system to recognize and solve handwritten numbers and equations** using image processing and CNN, achieving a 94% accuracy rate on a dataset of over 1,000 handwritten samples.
- **Implemented image segmentation techniques**, using contours to accurately isolate and individualize symbols, resolving 85% of contouring-related errors and improving preprocessing efficiency by 30%.
- **Enhanced the end-to-end pipeline**, reducing the average equation recognition and solving time by 40%, ensuring consistent and accurate results for diverse handwriting styles.

**Inverse Cooking Recipe Generation from Food Images (Python, Spyder, RESNET, OpenCV, Flask)**

- Led a team of four to implement a **Residual Network (RESNET)** for ingredient prediction and recipe generation, processing a dataset of 1 million recipes with an ingredient prediction accuracy of 92% and cooking instruction success rate of 87%.
- Designed and deployed a website using **Flask** that allowed users to upload food images and receive recipes, handling user inputs and reducing recipe retrieval time by 30%.

## EDUCATION

**Masters in Computer Science, University of Illinois Chicago**

Chicago, US

**Bachelor of Technology in Information Technology, JNTUH**

Hyderabad, India

## CERTIFICATES

- Power BI Job Simulation - PwC
- Career Essentials in Data Analysis - Microsoft
- Data Structures and Algorithms - NPTEL
- Database Management System - Oracle