

# Anisha Catherine Jose

Software Developer

catherinejose986@gmail.com — +91 94002 30312 — LinkedIn — GitHub — Portfolio

## Summary

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Database and Python Developer with strong expertise in SQL, Excel, Power BI, and Python. Skilled in designing and optimizing relational databases, writing complex SQL queries, and creating interactive dashboards for data analysis. Currently undergoing intensive training in Python Full Stack Development with Data Analytics, gaining hands-on experience in Django, React, and data-driven application development.

## Education

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**B.Tech in Computer Science Engineering** - CGPA: 7.64

APJ Abdul Kalam Technological University (KTU), Kerala, India

November 2021 – May 2025

## Projects

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### Wrong-Way Vehicle Detection Using Kalman Filter and YOLO

Tools: Python, React, Django, YOLO, Kalman Filter

- Engineered a system to detect and predict vehicles moving in the wrong direction by analyzing real-time trajectories.
- Utilized YOLOv3 for object detection and applied Kalman Filter for tracking and motion prediction.

### Weather WebApp — GitHub Link

Tools: HTML, CSS, JavaScript, OpenWeather API

- Developed a responsive weather app with city search and geolocation support featuring a mobile-friendly UI.
- Integrated API using Promises with error handling and unit toggling (°C/°F).

### Culprit Face Identification System

Tools: Python, CSV

- Implemented a criminal face matching system using image comparison techniques.
- Assisted law enforcement by identifying suspects with up to 99% accuracy.

## Skills

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- **Databases:** MySQL, SQL Server, Oracle SQL.
- **SQL Expertise:** Joins, Subqueries, Grouping, Aggregate Functions, Pseudo Columns, Stored Procedures, Views, Indexes, ER Diagrams, Normalization (up to 3NF), DDL, DML, DCL, TCL, DQL.
- **ETL & Data Modeling:** CRUD operations, data extraction & transformation, schema design, star & snowflake modeling.
- **Frameworks & Tools:** Django, React, Git, VS Code, GitHub
- **Data Analytics & Visualization:** Excel (Pivot Tables, VLOOKUP, Data Cleaning, Dashboards), Power BI (DAX, Data Modeling, Interactive Reports, KPI Dashboards).
- **Python Expertise:** Strong in problem-solving, OOP concepts, data structures, and algorithms using Python.
- **Languages:** C, HTML, CSS, JavaScript.
- **Core Skills:** Problem-solving, Teamwork, Leadership, Communication, Time Management
- **Language:** English, Malayalam

## Certifications

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Database Management Systems — NPTEL

Jan – Mar 2024

## Workshops & Internship

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- Workshop on Web Mining — IEEE Student Branch
- Big Data and Hadoop — TATHVA 22, NIT Calicut

May 2022

Oct 2022

## Interests

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- Chess
- Games
- Craft Work