SAKSHAM DHUMALE

Software Engineer | Data Analyst | Machine Learning

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SUMMARY

Computer Science graduate (B.E., 2022–2026) with hands-on experience building end-to-end applications in Python, spanning software development, data analysis, and machine learning. Built a Flask web application with a SQLite backend and an integrated, trained CNN model for image classification, and analyzed multi-table business datasets in MySQL to surface actionable insights via SQL and data visualization. Strong foundation in Data Structures & Algorithms, Object-Oriented Programming, and Database Management Systems. Experienced with Git/GitHub in a team setting. Fast learner with strong problem-solving ability.

EDUCATION

B.E. Computer Science & Engineering **2022 – 2026**

Prof. Ram Meghe Institute of Technology and Research, Sant Gadge Baba Amravati University

Relevant Coursework: Data Structures & Algorithms, Database Management Systems (DBMS), Object-Oriented Programming, Operating Systems, Computer Networks, Software Engineering

Higher Secondary Certificate (HSC) **2021 – 2022**

Harikisan Maloo International School and Junior College — Maharashtra State Board

Secondary School Certificate (SSC) **2019 – 2020**

Golden Kids English High School — Central Board of Secondary Education

CORE SKILLS

Programming: Python, Java, HTML

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems (DBMS), Operating Systems, Computer Networks

Machine Learning / CV: CNN, Image Classification, Image Preprocessing, Model Training, Model Evaluation, OpenCV, TensorFlow/Keras

Data Analysis & BI: SQL, MySQL, Data Cleaning, Data Wrangling, Statistical Analysis, Data Visualization, Power BI, MS Excel (Pivot Tables, VLOOKUP), Dashboarding, Trend Analysis, Reporting

Web/Backend: Flask, SQLite, Jinja2, REST-style routing

Tools: Git/GitHub, VS Code, Jupyter

Other: Communication, Problem Solving, Attention to Detail

PROJECTS

Endometrium Cancer Detection using CNN

Python, Flask, SQLite, Jinja2, OpenCV, CNN, TensorFlow/Keras, Git/GitHub

- Collaborated with a 5-member team to design and build a Flask web application end-to-end — from image upload through prediction to results display — backed by SQLite for data persistence.
- Implemented Jinja2-templated pages for login/register, image upload, and results/model-performance views, following an MVC-style separation between routes, templates, and model logic.
- Integrated a trained CNN model (TensorFlow/Keras) into the Flask app to classify uploaded histopathological slide images into 4 categories (3 cancer stages + Normal) in real time.
- Built a 4-step image preprocessing pipeline (grayscale conversion, edge detection, binary thresholding) in Python/OpenCV, plus cell-counting logic to quantify total, damaged, and overlapping cells per slide.
- Trained and evaluated the CNN model, tracking performance via accuracy graphs and a confusion matrix across the 4 output classes.

From Crust to Customer: Pizza Sales Analysis Using MySQL

Python, SQL, MySQL, Data Cleaning, Data Visualization

- Wrote Python scripts and SQL queries (joins, aggregation, grouping) against a multi-table MySQL database to extract, clean, and analyze pizza sales data.
- Handled data cleaning edge cases (nulls, duplicates, inconsistent formatting) programmatically to produce analysis-ready datasets.
- Applied statistical analysis (aggregation, grouping, trend comparison) to identify patterns in order volume and revenue by item and time of day.
- Built visualizations to communicate key business insights — top-selling items, peak order times, and revenue trends — supporting data-driven decision-making for sales strategy.

LANGUAGES

English (Native), Hindi (Native), Marathi (Native)