YASHANK KOTHARI

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Education

K.J. Somaiya College of Engineering — Mumbai, India

Bachelor of Technology Computer Engineering and Honours in Data Science — *October 2022 – May 2026*

Experience

Data Engineer — July 2026 – Present

ICICI Lombard — *Mumbai, India*

- Build and maintain PL/SQL stored procedures and Oracle data pipelines behind insurance reporting
- Write and tune the SQL that feeds daily data loads and business KPIs
- Reconcile data between transactional (OLTP) and reporting (OLAP) systems so the numbers match
- Work with business and analytics teams to turn reporting requests into reliable data

Data Engineering Intern — January 2026 – June 2026

Colgate Palmolive — *Mumbai, India*

- Built 30+ idempotent Apache Airflow pipelines moving high-volume data from Google Cloud Storage to Snowflake
- Designed multiple Medallion data models (Staging, Curated, Consumption) in dbt and Jinja-templated SQL, powering BI reporting in Domo and Sigma Analytics
- Helped migrate 20+ tables in the SAP ECC to SAP S/4HANA move, remediating legacy tables, updating transformations and validating for zero-defect production data
- Trained and tuned the model behind a Retool AI natural-language query tool spanning 15+ tables, so business teams could query data without writing SQL

AI/ML Intern — June 2025 – July 2025

Card91 — *Bangalore, India*

- Researched real-time fraud detection for UPI-style P2P and P2B payments, covering rule engines, anomaly detection and ML scoring
- Evaluated the open-source Tazama fraud detection engine for adoption, studying its TypeScript rule logic against Card91's payment flows
- Delivered recommendations and an implementation plan for bringing Tazama into real-time transaction monitoring

Projects

NotesAid | *Next.js, React, TypeScript, Progressive Web Application* — 2025

- Launched the beta version on February 24, 2025, achieving 17,000+ views, 1,500+ hours of active time, and 2,700+ unique users in a single semester
- Made the project open-source, receiving 60+ pull requests and contributions from the community
- Developed a method for efficient content updates and performance optimization, turning it into a responsive Progressive Web App (PWA)

MalNotWare | *Docker, VirusTotal API, Browser Extension, Hybrid Malware Detection* — 2025

- Engineered MalNotWare, a hybrid malware detection system that automatically scans downloaded files via a custom browser extension
- Leveraged static analysis by querying the VirusTotal API for known threats and performed dynamic analysis by executing suspicious files in a sandboxed Docker container
- Implemented real-time monitoring for malicious behavior detection with containerized security isolation

OncoLytix | *MobileNet V2, React Native, Expo, Flask, Mobile Application* — 2025

- Developed a cross-platform lung cancer detection mobile application using React Native (Expo) and Flask
- Built and trained a MobileNetV2-based image classifier using MediaPipe Model Maker for detecting lung cancer from CT scan images with 87% Accuracy
- Integrated with a Flask REST API to handle image preprocessing, queueing, and real-time prediction logic
- Designed a user-friendly mobile interface using React Native to upload CT scans and seamlessly display prediction results

Leadership

Creative Head July 2023 – July 2025

KJSCE Students' Council *Mumbai, India*

- Led all art and creative work for the Students' Council, running a team of 8 designers across two years
- Set the creative direction for 15+ college fests drawing a combined footfall of 50,000, including Symphony, Abhiyantriki and Skream
- Designed each fest's full visual identity: branding, banners, posters, social content, launch videos, stickers, caps and merch

Certifications

AI Receptive Software Development – Clemson University	2025
Neural Networks and Deep Learning – DeepLearning.AI	2024
AWS Cloud Technical Essentials – Amazon Web Services	2024

Technical Skills

Languages: Python, SQL, PL/SQL, NoSQL, JavaScript, HTML/CSS, C++
Applications: Apache Airflow, Snowflake, Domo, Sigma Analytics, Grafana
Frameworks: dbt, React, React Native, Node.js, FastAPI, REST API
Developer Tools: AWS (RDS), PostgreSQL, Oracle, Git, Jira, Docker, Linux, VS Code
Libraries: pandas, NumPy, Matplotlib