

SAKSHAM GUPTA

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Academic Background

- B.Tech CSE – Cloud computing and automation 2022 - 2026
Vellore Institute of Technology CGPA - 8.58

Skills

- Programming languages: Python | SQL | JavaScript
- Frontend: ReactJS
- Backend: Flask | NodeJS | ExpressJS
- Database: MySQL
- Dev Tools: AWS | Git | Postman | Linux

Projects

- PyLocker | [Link](#)
 - Developed a secure desktop password manager using Python with a Tkinter GUI, featuring local JSON storage for offline usage and easy credential management.
 - Integrated cloud synchronization using the Sheety API, allowing credentials to be securely backed up and retrieved from Google Sheets for persistent, remote access.
- CloudBill Processor | [Link](#)
 - Build an event-driven, serverless data processing pipeline on AWS using Python and AWS Lambda function and triggered by file uploads to S3 Bucket.
 - Engineered the core logic to automatically extract bill data from images using AWS Textract, store the structured results in AWS DynamoDB, and send summary notifications via AWS SES.
- Access Control | [Link](#)
 - Developed a secure, session-based user authentication system utilizing Node.js, Express, Passport.js, and Google OAuth. Integrated with a MySQL database to manage user registration, login, and protected route access workflows.
 - Engineered a multi-layered security mechanism for user credentials by first hashing passwords with bcrypt. Implemented a secondary AES encryption layer on the stored hash to enhance data protection for sensitive information at rest.
 - Engineered a responsive frontend with EJS, using server-side rendering to dynamically construct views that enforce access control by conditionally displaying secure content and navigation options based on the user's authentication status.

IT Certification

- AWS Certified Cloud Practitioner [Verification](#)
- Oracle Generative AI Professional [Verification](#)
- Oracle Data Science Professional [Verification](#)
- Oracle Vector AI Search Professional [Verification](#)

Achievements

- Identified an error in the official AWS documentation; the suggested correction was validated and pushed to production.