

Sonali Singh

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WORK EXPERIENCE

Mortgage Processing Center Inc.

Software Developer

Jan 2025 - Present

- Developed and deployed **full-stack web applications** using **Python (Flask)**, **JavaScript**, and **MongoDB**, tailored to internal business needs.
- Built **AI-driven modules** into web systems, enabling smart features like **automated document analysis**, **data extraction**, and **real-time decision assistance**.
- Integrated **RESTful APIs** and third-party services to connect scalable backend systems with dynamic frontend interfaces.
- Led efforts in **frontend optimization** and **responsive design**, improving usability and client satisfaction across platforms.
- Reduced manual workflows by **30%** by creating **intelligent automation tools** for document verification and data validation.

EDUCATION

MGM College of Engineering and Technology, Noida

B.Tech in CSE (AI & ML) - 8.2 cgpa (Till 5th Sem)

2022 - 2026

PROJECT

LegiChain_AI – AI-Powered Smart Contract Platform [🔗](#)

2025

- Built a **full-stack contract automation tool** using **Flask**, **MongoDB**, and **Hugging Face transformers** for **legal text classification** and clause extraction.
- Achieved **92% accuracy** in identifying critical clauses like termination, liability, and confidentiality using a **fine-tuned BERT model**.
- Integrated with **Ethereum** and **IPFS** to ensure **tamper-proof storage**, **transparent version control**, and **decentralized approval workflows**.

FingerPrint_Matcher [🔗](#)

2024

- Achieved **98% match accuracy** by leveraging **SIFT** for robust fingerprint feature detection.
- Reduced matching time by **40% using FLANN-based nearest neighbor** search for efficient comparisons.
- Ensured **high-quality matches** with a **rigorous ratio test**, filtering out false positives.
- Visualized keypoint correspondences with **over 150 matched features per fingerprint** pair for verification.

SKILLS

- **Programming Languages:** Python, Java, JavaScript
- **AI/ML:** Scikit-learn, TensorFlow, Keras, Hugging Face, Pandas, NumPy
- **NLP:** Transformers (BERT, RoBERTa), Text Classification, Named Entity Recognition
- **Web Development:** Flask, HTML, CSS, JavaScript, REST APIs
- **Database:** MySQL, MongoDB
- **Version Control & Tools:** Git, GitHub, VS Code, Postman

ACHIEVEMENTS

- Solved over **1000+ questions on Leetcode & Geeksforgeeks**.
- Leetcode : [LeetCode Profile](#)
- Geeksforgeeks : [GeeksforGeeks Profile](#)
- Secured **Elite performer** position in DSA using Java course organized by IIT Kharagpur.
- Member of **DSA Core Team** in **GDG Oncampus** and Technical Society of College.