

Sushil Sagar

leetcode.com/u/sagarsushil | sagarsushil1403@gmail.com | linkedin.com/in/sushil-sagar-0b4538290 | github.com/sushil-sagar05

Education

B.P. Mandal College of Engineering
Bachelor of Technology, Computer Science Engineering

Madhepura, Bihar
2023–2027

Relevant Coursework

Data Structures
CS229: Machine Learning

CS50: Introduction to CS
Computer Architecture

Object-Oriented Programming
CS50W: Web Programming

Projects

NyayNetra - AI-Powered Legal Document Analyzer | *Next.js, TypeScript, Express.js, Flask, Hugging Face, MongoDB*

- **Developed** an AI-driven LegalTech platform for legal document analysis using **summarization**, **clause tagging**, **risk detection**, and **question answering**.
- **Built** NLP pipelines using **InLegalBERT** and **SentenceTransformers** for embedding-based classification and semantic understanding.
- **Designed** microservices in **Flask** for document chunking, vector generation, and integration with **Hugging Face Spaces**.
- **Migrated** local models to **Hugging Face Spaces**, enabling **scalable** and **low-latency** inference with async proxy support.
- **Engineered** backend with **role-based authentication**, **rate limiting**, **cron jobs**, and modular architecture.
- **Created** a responsive **Next.js** frontend with real-time status tracking, document upload workflows, and AI result visualization.
- **Links:** [🔗GitHub](#) | [Live Demo](#)

MovieMeter - AI-Based Movie Recommender System | *React.js, Flask, MongoDB, Express.js, Scikit-learn, Pandas*

- **Built** a content-based recommendation engine using **cosine similarity** on **movie metadata** and **genres**.
- **Designed** dynamic user profiles that evolve with likes and reviews to personalize recommendations.
- **Implemented** full-stack features including **secure authentication**, review/discussion, and watch history.
- **Links:** [🔗GitHub](#) | [Live Demo](#)

Cabflow - End-to-End Cab Booking Platform | *React.js, Node.js, Express.js, MongoDB, Google Maps API, JWT*

- **Engineered** a complete cab booking system with **rider authentication**, **live trip tracking**, and dynamic fare logic.
- **Integrated Google Maps API** for real-time routing, distance calculation, and location rendering.
- **Managed** full trip lifecycle (**requested** → **active** → **completed**) with **role-based dashboards**.
- **Links:** [🔗GitHub](#)

Technical Skills

Languages: Python, C++, C, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks: Flask, Express.js, Next.js, React.js, Node.js, Tailwind CSS

AI/ML & NLP: Hugging Face Transformers, SentenceTransformers, InLegalBERT, LangChain, Scikit-learn, Pandas, NumPy, Cosine Similarity, TF-IDF, Matplotlib

Libraries: pandas, NumPy, Matplotlib

Open Source Contributions

GirlScript Summer of Code 2024 | *Contributor*

- **Contributed** to multiple projects with **UI/UX enhancements**, improving design consistency and usability.

Hacktoberfest 2024 | *Contributor*

- **Improved** front-end design of the **Tasty Trails** project to enhance user experience and interface quality.