# Sushil Sagar

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#### Education

#### B.P. Mandal College of Engineering

Bachelor of Technology, Computer Science Engineering

Madhepura, Bihar, India Expected: 2027

#### Relevant Coursework

Data Structures
CS229: Machine Learning

CS50: Introduction to CS Computer Architecture Object-Oriented Programming Computer Networks

### Projects

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

- · Designed and deployed NyayNetra, a full-stack AI platform for legal document analysis, integrating summarization, clause tagging, risk detection, and RAG-based Q/A.
- · Built a production-grade backend (Express.js, MongoDB) with authentication, rate limiting, cron jobs, secure API gateway, and persistent legal history storage.
- Engineered a Dockerized FastAPI microservice hosted on Hugging Face Spaces to handle heavy AI inference, offloading computation from the main backend.
- · Implemented NLP pipelines for PDF text extraction, preprocessing, chunking, embedding generation, and domain-specific model integration.
- · Developed a responsive Next.js frontend with real-time result rendering, status indicators, and structured visualization for AI outputs.
- · Links: OGitHub | Live Demo

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

- Engineered a personalized movie recommendation engine delivering high-accuracy suggestions using content-based filtering with Bag-of-Words and cosine similarity.
- · Built a full-stack platform (React.js, Node.js, Flask microservices, MongoDB Atlas) where users can discover, review, favorite, and discuss movies with secure authentication.
- · Enhanced user engagement by integrating real-time recommendation delivery based on individual movie interaction history.
- · Optimized backend services for low-latency recommendation generation and deployed a production-ready system accessible to global users.
- · Links: OGitHub | Live Demo

Dev-Circle - Text-Based Post Sharing Platform | React.js, Node.js, Express.js, MongoDB, JWT

- · Developed an end-to-end text-based post sharing platform with engaging social features including likes, reposts, comments, following/unfollowing, and mutual-follow messaging.
- $\cdot$  Implemented secure authentication with JWT and role-based access control.
- · Designed a responsive UI for seamless interaction across devices.
- · Links: OGitHub | Live Demo

#### Technical Skills

Languages: Python, C++, C, JavaScript, TypeScript, SQL, HTML, CSS Frameworks: Flask, Express.js, Next.js, React.js, Node.js, Tailwind CSS

 $\mathbf{AI/ML} \ \& \ \mathbf{NLP} \hbox{: Hugging Face Transformers, Sentence Transformers, In Legal BERT, Lang Chain, Scikit-learn, Pandas, NumPy, N$ 

Cosine Similarity, TF-IDF, Matplotlib

Databases/Tools: MongoDB, Google Maps API, JWT, Git, Docker

## 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.