

# Shreyash Kumar Singh

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## About

I am a web and AI/ML/GenAI developer passionate about creating impactful solutions through technology. With experience building a variety of meaningful projects using modern tech stacks, I strive to turn ideas into functional, user-focused products. I also enjoy sharing knowledge by writing articles, blending technical expertise with creativity to inspire and inform others.

## Education

### Kalinga Institute of Industrial Technology (KIIT)

Bachelor of Science in Computer Science

- **Relevant Coursework:** Web Development , AI ML DL , NLP

Expected May 2027

Bhubaneswar , Odisha

## Projects

### Aifybox | Flask, Tensorflow, Python, Javascript, HTML, CSS, HuggingFace

- Developed [\[Aifybox Chrome extension\]](#) [\[Demo\]](#), integrating a home-brewed LSTM+GRU model to provide AI-driven text autocompletion and suggestions in text fields.
- Trained and optimized the deep learning model, enabling real-time, space-triggered word prediction with OOV (out-of-vocabulary) handling for enhanced user experience. [\[Model Training Notebook\]](#)
- Deployed the model on Hugging Face Spaces, allowing seamless backend integration via REST APIs for scalable and efficient predictions.
- Implemented intuitive Chrome extension behavior, activating only on user input to ensure non-intrusive, contextually accurate text suggestions.

### Monkey Score | Scikit-learn, flask, Nextjs, Vercel

- Developed a machine learning software [\[MonkeyScore\]](#) to predict scores and provide personalized analysis based on individual traits and characteristics.
- Leveraged various machine learning models and techniques, including synthetic data generation and self-collected data, to ensure accurate predictions.
- Designed and implemented both the frontend and backend of the application for seamless user interaction and data processing.

### Ky4r - Know Your Roads | MongoDB, Express, Next, Mapbox, TailwindCSS, MERN

- Developed a community-driven platform [\[Know-your-roads\]](#), to provide accurate road condition data, leveraging crowdsourced information to highlight hazards often overlooked by mainstream media.
- Integrated Mapbox for seamless mapping and a custom implementation of op-db for backend management of map markers.
- Raised public awareness of road conditions and hazards to ensure safer travel for users.
- Enhanced user experience through data visualization, delivering scalable solutions to improve the quality of life for millions.

### Op-db Npm Package | Express, Cloudinary, MongoDB, Nextjs, Nodejs, NPM, TailwindCSS, MERN

- Developed op-db, an NPM package that streamlines backend and database setup with pre-built schemas and controllers to support various project types, such as social media apps, game apps, and user management systems.
- Provided ready-to-use endpoints and implemented a standard, modular file structure to facilitate easy customization and rapid development.
- Optimized for simplicity and scalability, allowing developers to install and set up a fully functional backend with a single command: `npm i op-db`.
- Documented comprehensive usage guidelines and best practices, hosted at [\[op-db Documentation\]](#), for streamlined onboarding and user adoption.

## Technical Skills

**Languages:** Javascript, Java, C, Python, HTML, CSS

**Technologies:** React.js, Next.js, Express, Node.js, Tailwind CSS, Pandas, NumPy, Langchain, Tensorflow, Scikit-learn, Git, VsCode, Jupyter Notebook ,Kaggle ,Keras

**Concepts:** Machine Learning, Deep Learning, Artificial Intelligence ,Generative AI, Natural Language Processing (NLP) , Recurrent Neural Network (RNN), Convolutional Neural Network (CNN), Transformers