

Shashwat Shukla

+91 8630426422 | shashwats018@gmail.com | [LinkedIn](#) | [GitHub](#)

Summary

An ambitious front-end developer with strong expertise in Machine Learning, React.js, and MongoDB. Proven experience building scalable, secure applications and integrating AI technologies.

Education

Rajkiya Engineering College, Mainpuri , Bachelor of Technology, Computer Science Engineering	Sep 2023 - Oct 2027 (Expected)
• CGPA: 8.07	
Suditi Global Academy , 12 th CBSE	July 2022
• %: 83.33	
Suditi Global Academy , 10 th CBSE	July 2020
• %: 85.33	

Skills

Languages: C++, JavaScript, Python

Frameworks/Libraries: Scikit Learn, Express.js, React JS, Node.js, Tailwind CSS, Mongoose, SQL

Tools/Platforms: Git & GitHub, Docker, AWS, Postman, Google Colab, Jupyter Notebook

Databases: MongoDB

Projects

Shear Capacity of Steel Girders by Machine Learning

- Built a multi model to estimate the shear capacity of stiffened steel plate girders under varying load scenarios.
- Trained the model on 150 data samples using features like loading types, failure modes, bending, and buckling.
- Achieved an R^2 score of 0.9975, showcasing outstanding prediction accuracy across multiple output targets, proving the model's robustness in complex structural analysis cases with highly reliable results.
- **Technologies Used:** Google Colab, Machine Learning, Python, Jupyter Notebook, tkinter, Matplotlib, Seaborn

Probabilistic Damage Model for Reinforced Concrete Columns

- Built an ML model using XGBoost, CatBoost, and Monte Carlo Simulation to predict RC column blast damage.
- Applied data preprocessing, tuning, hyperparameter tuning and evaluation to improve model accuracy.
- Applied AI-driven insights to enhance structural safety analysis, integrating machine learning techniques with civil engineering principles for accurate, real-world impact.
- **Technologies Used:** Scikit-learn, Python, Pickle, Ipywidget, Jupyter Notebook, Pandas, NumPy

React UI Library with Tailwind and Storybook

- Developed consistent, reusable React components using Ts and Tailwind CSS for scalable UI solutions.
- Ensured design and code consistency by documenting components in Storybook with interactive examples.
- Focused on maintainability, flexibility, and code consistency throughout the component library's architecture and implementation.
- **Technologies Used:** React JS, TypeScript, Storybook, Shadcn UI, Git & GitHub

Courses & Certificate

- Infosys Springboard: AWS Certification
- Web Development by Dr. Angela Yu - Udemy
- Docker & Kubernetes by Academind - Udemy
- Neural Networks and Deep Learning – Coursera