

Shubham Kumar Singh

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SKILLS

- Languages:** C/C++, Python, SQL
- Frameworks & Libraries:** TensorFlow, Scikit-Learn, Seaborn, Flask, OpenCV, Pandas, NumPy, Matplotlib
- Tools/Platforms:** Git, GitHub, Jupyter Notebook, Google Colab
- Soft Skills:** Problem-Solving, Team Collaboration, Project Management, Adaptability

PROJECTS

- AI-BASED WATER QUALITY & ENCROACHMENT ANALYSIS** April 2025
 - Built a ML pipeline for chemical parameter analysis (pH, turbidity, sulfate, hardness), achieving 85% accuracy in water quality prediction.
 - Applied image processing and computer vision to detect encroachments, pollution levels in water bodies and reduce manual inspection effort by 40%.
 - TECH: Flask, TensorFlow, OpenCV
- ONLINE PAYMENTS FRAUD DETECTION** Jan 2025
 - Developed a machine learning model to detect fraudulent online payment transactions using a Decision Tree Classifier, achieving 99.97% accuracy on test data.
 - Performed data preprocessing and exploratory data analysis (EDA) to identify key fraud patterns and improve model reliability through visualization and feature optimization.
 - TECH: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Plotly
- SMART FINANCIAL ASSISTANT CHATBOT FOR BUDGET PLANNING** Nov 2024
 - Developed an interactive chatbot for personal budget planning and financial management, enabling users to track expenses, set savings goals, and receive smart budgeting insights.
 - Built and deployed a user-friendly web interface using Flask, enabling seamless user interaction and real-time chatbot conversations
 - TECH: Python, Flask

CERTIFICATES

- Oracle Cloud Infrastructure Professional – **Data Science** Sep 2025
- Oracle Cloud Infrastructure Professional – **Generative AI** Aug 2025
- Responsive Web Design – **FreeCodeCamp** Jan 2024

ACHIEVEMENTS

- Participated in WebDev Hackathon**
Contributed to a Rapid Car Rental Booking Web Application using HTML, CSS and JS within 24 hours.
- Community Development Volunteer**
Contributed to the education and skill development of differently-abled children by organizing interactive learning sessions and providing personalized support to enhance their academic growth and confidence.

EDUCATION

- Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.96 Since August 2023
- Sree Ayyappa Public School** Bokaro, Jharkhand
Intermediate; Percentage: 84.2% April 2020 - March 2022
- Takshila School** Gaya, Bihar
Matriculation; Percentage: 89.2% April 2018 - March 2020