

Shubham Kumar Singh

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SKILLS

• Languages:	C/C++, Python, SQL
• Frameworks & Libraries:	TensorFlow, Scikit-Learn, Seaborn, Flask, OpenCV
• Tools/Platforms:	Git, GitHub, Jupyter Notebook, Google Colab
• Core Subject:	Data Structures & Algorithms, Operating Systems, Computer Networks
• 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 Webॢ 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