

Utkarsh Singh

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EDUCATION

Bennett University, Greater Noida

B.Tech Computer Science and Engineering w/ Specialization in Cloud Computing

CGPA - 8.07

Aug. 2022 – May 2026

WORK EXPERIENCE

Cloud Operations Intern

July 2025 – Present

Shree Ram Infosystems Pvt. Ltd., Okhla Ph.II, New Delhi

Onsite

- Optimising and restructuring cloud-based network for an office.
- Worked with Azure (Blob, Cost Management, etc.) and AWS (Amplify, S3, etc.) to deploy and maintain cloud-based applications.
- Overviewed implementation of Office Management System and its integration with company website.

PROJECTS

SkinWise.AI | C++, Python, CSS/HTML, JavaScript

[Preview](#) | 2023

- SkinWise is a revolutionary application aimed at enhancing skin health awareness and early detection of dermatological conditions through innovative technology.
- Key highlights of SkinWise include: 1. Real-time skin analysis 2. Comprehensive Skin Condition Insights 3. Personalized Skin Care Recommendations
- SkinWiseAI allows users to upload images of skin lesions for analysis. Using advanced algorithms, the system provides real-time predictions for various skin diseases, helping users identify potential health concerns early on.

Aerodrive | HTML, Python, SQLite, AWS

[Preview](#) | 2024

- AeroDrive is an innovative taxi booking system tailored to streamline campus transportation for students, offering seamless commuting experiences.
- Key highlights of AeroDrive include: 1. Real-time ride tracking and arrival time predictions 2. Cashless payment integration for secure transactions 3. Advanced route optimization for reduced commuting time and enhanced efficiency.
- AeroDrive leverages Python for backend development, SQLite for user data management, and cloud services like AWS EC2, RDS and S3 to ensure scalability and reliability. The platform provides a user-friendly interface built with Tkinter and HTML, ensuring accessibility and convenience for college students.

Fuel Blend Prediction - Shell.ai Hackathon | Python, Ensemble ML, Streamlit, SHAP

[Preview](#) | 2025

- Achieved 94.96 leaderboard score by predicting 10 fuel blend properties using a high-accuracy stacked ensemble model.
- Combined LightGBM, XGBoost, CatBoost, and MLP ensemble as base learners with a RidgeCV meta-model for stacking.
- Applied SHAP-based per-target feature selection (top 30 features) before cross-validation to improve generalization.
- Developed a Streamlit-based web application to deploy ML model, enabling real-time predictions, data visualization and getting inverse prediction capabilities.

ACHIEVEMENTS & CERTIFICATIONS

Semi-Finalist in **Shell.ai Hackathon 2025**, achieving 94.96 leaderboard score in Fuel Blend Prediction challenge.

AWS Academy Cloud Foundations

Oracle Cloud Infrastructure 2023 Certified Foundations Associate

AWS Cloud Practitioner (a61127e9922a4989a49dd957d5db65ce) [Verify](#)

RESEARCH AREA

Task Scheduling Across Cloud and Fog Nodes via Metaheuristic Techniques

- This paper explores the optimization of task scheduling between cloud and fog computing using metaheuristic algorithms to balance cost and response time.

Fracture Detection in X-ray Images using Deep Supervised Learning

- This study focuses on utilizing deep learning (DL) to enhance the detection and classification of bone fractures in X-ray images, supporting radiologists in improving diagnostic accuracy.

TECHNICAL SKILLS

Languages: C++, Python, SQL

Developer Tools: Git, Github, Google Colab, RESTful APIs, Azure, AWS, VS Code

Software Testing Tools: JIRA, Postman

Soft Skills: Fluent in reading & writing English and Hindi