

# Saheel Yadav

AI & Machine Learning Enthusiast / Aspiring AI Engineer

Bachelor of Technology

DRK Institute Of Science And Technology, Hyderabad

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GitHub Profile

LinkedIn Profile

## OVERVIEW

Motivated and solution-focused Computer Science student specializing in Artificial Intelligence and Machine Learning. Experienced in building AI-driven systems, NLP models, and ensemble-based predictive solutions. Passionate about applying data-driven insights to solve real-world challenges and innovate through intelligent systems.

## EDUCATION

### •Bachelor of Technology in Computer Science and Engineering

DRK Institute Of Science And Technology, Hyderabad

2022–2026

CGPA: 7.75

## PERSONAL PROJECTS

### •Smart Cart Predictor (Amazon Hackathon Project)

Oct-2025

An ensemble-based machine learning model for predicting product prices and patterns in shopping data.

- Built an ensemble pipeline using LightGBM, Ridge, and Random Forest to minimize SMAPE.
- Utilized TF-IDF and Sentence Transformers for feature extraction from product descriptions.
- **Technology Used:** Python, LightGBM, NLP, Scikit-learn, Hackathon.

### •AI-Based Intrusion Detection System (NIDS)

Mar-2025

A machine learning–driven system for detecting network intrusions.

- Used the NSL-KDD dataset for training multiclass and binary classifiers.
- Built models with Random Forest, SVM, and Deep Neural Networks to improve detection accuracy.
- **Technology Used:** Python, Scikit-learn, TensorFlow, Pandas, Linux.

### •Document Classification and Query Routing System

Jan-2025

A text classification engine using Wikipedia data.

- Built TF-IDF + n-gram-based model for routing user queries.
- Implemented cosine similarity for topic matching.
- **Technology Used:** Python, NLP, Wikipedia API.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Python, C, Java, JavaScript

**Frameworks Libraries:** Pandas, Scikit-learn, Numpy, Matplotlib, LightGBM, React.js, Express.js

**Tools Platforms:** Git, GitHub, Jupyter Notebook, VSCode, Linux

**Cloud/Databases:** MongoDB, MySQL

**Coursework:** Data Structures, Algorithms, DBMS, Operating Systems, OOPs, Computer Networks

**Areas of Interest:** Artificial Intelligence, Machine Learning, Generative AI, Agentic AI, Cloud Systems

## CERTIFICATES

### •Oracle Cloud Data Science Certified Professional (OCI25DSOCP)

2025

- Validated expertise in building, training, and deploying ML models on Oracle Cloud.

### •Oracle Cloud Generative AI Certified Professional (OCI25GAIOPC)

2025

- Demonstrated proficiency in generative AI, embeddings, and LLM-based applications.

### •Oracle AI Foundations Associate

2025

- Gained foundational proficiency in AI principles, model evaluation, and practical cloud deployment.

## EXTRA-CURRICULAR ACTIVITIES

- **National Hackathon – Zignasa 24-Hour Hackathon (2025)** – Built a collaborative tech solution using the MERN Stack under real-time competitive constraints.
- **Deloitte Technology STEM Virtual Experience Program (2025)** – Simulated consulting tasks involving AI strategy, data-driven analysis, and cloud implementation.