

Uddipt Shankar

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LinkedIn | GitHub | Portfolio



Professional Summary

Third-year Computer Science student at KIIT targeting ML Engineer / AI Engineer roles. Experienced in building end-to-end NLP pipelines, transformer fine-tuning, and deploying ML applications. Strong background in machine learning, data analysis, and scalable Python-based systems.

Technical Skills

Programming	Python, Java
Machine Learning	Scikit-learn, XGBoost, LightGBM
Deep Learning	PyTorch, Hugging Face Transformers
NLP	NLTK, TF-IDF, Tokenization, Lemmatization, DistilBERT Fine-tuning
Data Analysis	Pandas, NumPy, Matplotlib, Seaborn
Visualization	Power BI, Excel
Deployment	Streamlit, FastAPI
Databases	MySQL, SQLite
Tools	Git, GitHub, Jupyter Notebook, VS Code, PyCharm, Anaconda
Coursework	Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks
Familiar	LangChain, Computer Vision, HTML, CSS, JavaScript

Experience

Intern — Sysnet Global Technologies Pvt. Ltd.

Oct 2025

Hand Gesture Recognition using OpenCV

- Assisted in building a hand gesture recognition prototype using OpenCV.
- Implemented image preprocessing and tested gesture detection under different conditions.
- Gained hands-on exposure to computer vision project workflows used in industry.

Projects

Ecommerce Review Sentiment Classification

ML, NLP, Transformers

GitHub | Live Demo

- Engineered an end-to-end NLP pipeline on 100K+ Amazon reviews, systematically benchmarking TF-IDF with Logistic Regression, SVM, Naive Bayes, XGBoost, and LightGBM before fine-tuning DistilBERT.
- Reached ~90% accuracy and ~0.72 macro-F1 across diverse product categories; shipped as a live Streamlit app with real-time predictions and confidence scoring.
- Conducted error analysis across misclassified samples to identify category-specific failure patterns and guide model improvements.

Inventory Management System

Python, MySQL, Streamlit

GitHub

- Architected a normalized MySQL schema with transaction-safe stored procedures, ensuring data integrity across concurrent operations.
- Delivered a Streamlit interface that makes inventory management accessible to non-technical users, backed by analytical SQL queries for live stock tracking and reorder alerts.
- Modularized the codebase into separate layers for database, business logic, and UI, making the system easy to extend and maintain.

World Indicator Analysis Dashboard

Python, Power BI

GitHub

- Processed a multi-year global dataset (2016–2024) and surfaced insights on GDP, internet access, and poverty through interactive Power BI dashboards.
- Authored advanced DAX measures with dynamic filters, enabling drill-down exploration across countries and time periods.

Low Level System Design Case Studies

Java, Design Patterns

GitHub

- Modelled production-grade OOP architectures for real-world systems including Google Docs, Spotify, and Zomato.
- Applied SOLID principles and 20+ design patterns — Factory, Observer, Adapter, Decorator, and more — with documented rationale for each design decision.

Education

Kalinga Institute of Industrial Technology (KIIT)

Bhubaneswar, India

B.Tech in Computer Science and System Engineering

Expected 2027 CGPA: 8.2

Certifications

- Google Operating Systems
- Meta Database Management
- NVIDIA Computer Networking
- IBM Machine Learning Professional Certificate
- Google Advanced Data Analytics
- BCG X Data Science (Forage)
- Apna College — DSA with Java