

# YASH BHARDWAJ

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## Professional Summary

Computer Engineering student with proven skills in Machine Learning, NLP, and MLOps. Possesses a strong ability to build and deploy end-to-end AI applications, from initial data analysis to containerized deployment. Seeking an AI or Data Science internship to contribute to impactful projects and further develop technical skills.

## Education

**cooked college of information technology**

**Expected Graduation: Aug 2027**

*Bachelor of Computer Engineering — Minor Artificial Intelligence*

*Bhubaneswar, India*

- GPA: 7.86/ 10
- Courses: Data Structure and Algorithms, Object Oriented Programming, DBMS, Computer Architecture, Linear Algebra

## Projects

**DriftRadar** | *Source Code*

**ReactJS** | **Docker** | **Generative AI (Llama 3)** | **FastAPI** | **PostgreSQL**

- Developed a **production-grade MLOps platform** to detect and monitor **data/model drift** in real time.
- Built a **FastAPI REST backend** (PSI, Wasserstein distance) with a **React.js dashboard** for visualization .
- Integrated **Generative AI (Llama 3)** for automated root-cause analysis and **containerized with Docker** for scalable deployment and aligning with modern **CI/CD best practices**.

**Animal Disease Detection Model** | *Source Code*

**Python** | **Scikit-learn** | **Pandas** | **Streamlit** | **SHAP**

- Built an **XGBoost classification model** on **43k+ clinical records**, achieving **92% accuracy**.
- Applied **EDA, preprocessing, and feature engineering** to address **class imbalance**, optimizing **Macro-F1 and ROC-AUC**.
- Integrated **SHAP (Explainable AI)** for interpretable predictions in **clinical decision support**.

**FAQ Bot for Discord** | *Source Code*

**Python** | **Scikit-learn** | **Discord.py** | **NLTK**

- Designed an **NLP pipeline** with **NLTK** (tokenization, lemmatization, stopwords removal) for query understanding.
- Trained a **TF-IDF + Logistic Regression** model to achieve **85% intent classification accuracy**.
- Automated **real-time query resolution** on Discord, providing 24/7 user support.

## Leadership & Extracurriculars

**Film and Theater Society, IIIT Bhubaneswar**

**Aug 2023 – May 2025**

- Edited and produced 15+ event promotion videos, boosting engagement by 30%.
- Led a 4-member media team for the annual fest, managing live coverage and media production.

**Advaita Techno-Cultural Fest, IIIT Bhubaneswar**

**Core Team**

- Coordinated logistics for 10+ events, ensuring smooth execution.
- Organized Inter-College Robo Soccer Competition with 100+ participants.

## Technical Skills

**Programming & Databases** Python, SQL, C++, JavaScript, R (basic)

**Machine Learning** Scikit-learn, XGBoost, Random Forest, TensorFlow, PyTorch, SHAP

**Data Science & Analytics** Pandas, NumPy, Exploratory Data Analysis (EDA), Data Visualization (Matplotlib, Seaborn), Data Analytics

**NLP & AI** NLTK, TF-IDF, Generative AI (LLMs), Intent Classification, Transformers (basic)

**MLOps & Deployment** FastAPI, REST, Docker, Model Monitoring (Evidently), CI/CD

**Web & Tools** React.js, Streamlit, PostgreSQL, Git, GitHub, Jupyter, VS Code