KUMAR YASHU

Bengaluru, India

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Education

Christ University	**2024 – 2026**
Master of Science in Data Science	*Bengaluru, Karnataka*
Chandigarh University	**2020 – 2024**
Bachelor of Technology in Computer Science Engineering (CGPA: 8.19)	*Mohali, Punjab*

Experience

Machine Learning Intern — **April 2025 – June 2025**
IIT Patna, Dept. of CSE — *Remote, India*
- Designed an Autoencoder-LSTM hybrid architecture for an intelligent Intrusion Detection System (IDS) to detect complex cyber threats in real-world network data.
- Conducted detailed Exploratory Data Analysis (EDA) on the NSL-KDD dataset, identifying a class imbalance ratio of 1116:1 and feature multicollinearity impacting model accuracy.
- Established a robust data preprocessing and model evaluation pipeline with a focus on F1-Score, AUC-ROC, and recall for cybersecurity anomaly classification.

Projects

JOBI Match – AI Resume Screening and Job Recommendation | GitHub | *Python, NLP, ML, Streamlit* — **2025**
- Designed and implemented ML models for resume screening with 85% accuracy, reducing manual screening time by 70%.
- Built AI model prototypes using EDA with Pandas/Matplotlib for feature analysis and performance evaluation.
- Deployed AI models with model tuning and integrated Adzuna API for real-time job matching recommendations.

EDAwala – Automated Exploratory Data Analysis | GitHub | *Python, Streamlit, AI* — **2025**
- Developed automated EDA tool using Pandas/Matplotlib for data analysis, reducing analysis time by 80%.
- Implemented ML model prototypes with Google Gemini API for AI-driven insights and anomaly detection.

Data DAO Club – Blockchain Investment Platform | GitHub | *Solidity, React.js, Filecoin* — **2024**
- Designed and implemented decentralized governance system using smart contracts for investment management.
- Research paper published in IEEE Blockchain Conference validating Web3 and decentralized finance applications.
- Selected as the winning project at the PUSH BRB Hackathon, recognized for innovation in Web3 and blockchain governance.

Skills

AI & ML: Scikit-learn, TensorFlow, XGBoost, NLP, Deep Learning, Model Tuning, Performance Evaluation
Data Engineering: EDA using Pandas/Matplotlib, NumPy, Feature Engineering, Data Cleaning
Cloud & DevOps: AWS, GCP, Docker, OCI , Model Deployment
Programming & Web: Python, SQL, C/C++, R, Flask, Streamlit, HTML, CSS
Databases: MongoDB, MySQL
Soft Skills Problem Solving, Communication, Analytical Thinking, Adaptability, Leadership, Time Management

Awards and Achievements

Published 3 Scopus-indexed research papers, including an IEEE Blockchain Conference paper

5-Star HackerRank Coder (C++ and SQL) , Solved 250+ Data Structures and Algorithms problems

Open Source Contributor (Hacktoberfest 2022/2023)

Certifications

Google GenAI Academy (2025)

NVIDIA Deep Learning Fundamentals (2025)

GitHub Foundations (2025-2028)

Oracle Cloud Infrastructure AI Foundations (2025)

NPTEL Certified in Software Testing and Data Mining (2023)

Docker Foundations Professional (2025)