

HARSHITA ANALA

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EDUCATION

Vivekanand Education Society Institute of Technology (University of Mumbai)

Bachelor of Engineering in Artificial Intelligence and Data Science

2020 – 2024

CGPA: 9.23 (Top 10 percentile)

TECHNICAL SKILLS

Programming: Python, SQL, Java, C, HTML, CSS, JavaScript

Machine Learning & AI: Scikit-learn, XGBoost, TensorFlow, PyTorch, LSTM, NLP, RAG, LLM, OpenAI API

Data Engineering & Cloud: PySpark, Databricks, AWS, Microsoft Azure AI, MySQL

Tools: Power BI, Tableau, Streamlit, Git, VS Code, Google Workspace

WORK EXPERIENCE

Data Scientist

Aug 2024 – Present

ImpactWorks Technology Solutions Pvt Ltd

- * Designed and deployed Agentic AI systems to optimize salon supply chain operations, reducing stockouts and improving inventory efficiency.
- * Built SQL-driven demand forecasting models incorporating seasonality and holiday trends, achieving 80%+ predictive accuracy.
- * Developed scalable ML pipelines for sales forecasting and churn prediction to drive data-backed strategic decisions.
- * Created real-time Power BI dashboards, improving executive decision-making speed by 30%.

Machine Learning Intern

May 2023 – June 2023

Reliance Jio

- * Built AI chatbot resolving 560,000+ customer complaints, reducing resolution time by 40%.
- * Performed large-scale data cleaning and transformation using SQL for structured model-ready datasets.
- * Implemented LSTM and Logistic Regression models to predict complaint escalations from sentiment trends.

Undergraduate Research Intern

Dec 2022 – Jan 2023

VESIT Renaissance Cell

- * Developed ML-powered health diagnostics platform using Python and TensorFlow achieving 90% accuracy.
- * Optimized Random Forest, Logistic Regression, and CNN models through hyperparameter tuning and feature engineering.
- * Applied NLP preprocessing techniques to improve prediction reliability and system performance.

PROJECTS

Predictive Maintenance of Servers | Python, LSTM, ML, Power BI

- * Developed LSTM-based time series models to forecast server failures, reducing downtime by 15%.
- * Applied Stratified K-Fold validation and hyperparameter tuning achieving 87% model accuracy.
- * Built real-time anomaly detection dashboard in Power BI for server health monitoring.
- * Published research paper based on this work in an international journal.

QuizMate | Azure AI, Python, streamlit (Project Link)

- * Built Retrieval-Augmented Generation system converting PDFs into MCQs and assessments.
- * Integrated Azure Form Recognizer and OpenAI APIs for context-aware question generation.
- * Reduced manual content creation effort by over 60%.

MedBOT - AI Medical Assistant | Python, OpenAI, LLM (Project Link)

- * Developed AI assistant with PDF analysis, symptom checker, and medicine recommendation system.
- * Implemented OpenAI embeddings for contextual medical report understanding.
- * Enhanced patient comprehension through simplified AI-generated medical insights.

AWARDS & ACHIEVEMENTS

Secured 3rd prize in a college-level hackathon for innovative technical solutions — link

Runner-up at AI Technology Day for developing a high-impact, innovative project — link

Solved over 500+ coding problems on LeetCode, HackerRank demonstrating strong problem-solving and algorithmic skills — link

Published research paper on predictive maintenance of servers, contributing to applied ML knowledge — link