

Ananya Halder

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EDUCATION

VIT Bhopal University

B.Tech in Computer Science and Engineering (Health Informatics) — CGPA: 8.30/10

Bhopal, Madhya Pradesh

Sep 2022 – Sep 2026

ACADEMIC RESEARCH

Catalyzing Epilepsy Detection: LSTM-based EEG Analysis (Accepted) | IEEE AICECS 2024

2024

- Designed and implemented a 2-layer LSTM (128→64 units) in TensorFlow to analyze sequential EEG data for seizure detection.
- Applied dropout regularization and hyperparameter tuning (learning rate, batch size, epochs) to enhance model performance and generalization.
- Achieved AP = 0.93 with 448/454 correct classifications, validating strong predictive analytics, classification modeling, and sequential data analysis for risk prediction in healthcare

TECHNICAL PROJECTS

E-Commerce Delivery Analysis (Project) | Data Preprocessing, PCA, Python, EDA

Aug 2025

- Analyzed delivery and sales data to identify a 45.82% refund rate and Grocery as the slowest category (29.54 min avg.), leading to targeted recommendations for service improvement and route optimization.
- Applied data preprocessing and PCA to extract influential factors affecting delivery times and customer satisfaction.
- Quantified business risk: delays led to 3× higher refund likelihood and a 2.5-star rating drop, providing insights for business optimization and risk reduction.

Blinkit sales Analysis (Project) | Excel (Advanced PivotTables, GETPIVOTDATA, KPI dashboards)

Aug 2025

- Automated KPI tracking (\$1.2M Sales, Avg. Sales, Ratings) using PivotTables/GETPIVOTDATA, boosting reporting efficiency.
- Benchmarked outlet performance by establishment year, assessing ROI and long-term viability of outlets.
- Identified \$350K revenue growth opportunity as low-fat items generated 83% higher sales, driving inventory optimization and product strategy.

TECHNICAL SKILLS

Languages/Libraries: Python, C++, SQL, TensorFlow, Pandas, NumPy, Scikit-learn, Next.js

Data Visualization & Reporting: Tableau, Matplotlib, Seaborn, MS Excel(Advanced)

Analytics & Modeling:: Exploratory Data Analysis (EDA), PCA, Predictive Modeling, Machine Learning (Basics)

LEADERSHIP AND CAMPUS INVOLVEMENT

iOS Club, VIT Bhopal

Oct 2023 – Apr 2025

Social Media and Marketing Co-Lead

- Amplified organic reach & engagement by 40% by directing a cross-functional team's digital strategy across LinkedIn and Instagram.
- Built a 100+ attendee workshop series from conception to execution, increasing active membership by 30%.

CERTIFICATIONS

AWS Solutions Architect – Associate (Cloud-native architecture, distributed systems).

Oracle Data Platform Foundations Associate Certification (Autonomous Database).

GenAI Powered Data Analytics (Predictive Analytics, AI Analytics).

ADDITIONAL DETAILS

Languages : English, Bengali, Hindi

Soft Skills: Team Management, Data-Driven Analysis, Communication, Adaptive Execution, Business Reporting