

Buddepu Vedavyas

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EDUCATION

Indian Institute of Technology, Bhubaneswar

B.Tech in *Mechanical Engineering* with M.Tech in *Manufacturing Engineering*, GPA: 7.45

Bhubaneswar, India

Nov. 2021 – May 2026

Narayana Junior College

Board of Intermediate Education, Percentage: 97.8%

Andhra Pradesh, India

April 2019 – March 2021

EXPERIENCE

Bournotec Solutions Inc

AI Research Intern

Hyderabad

May 2025 - July 2025

- Enhanced **knowledge distillation** capabilities through modular **framework** design, enabling seamless integration of multiple AI platforms (OpenAI, Gemini, Anthropic) for improved **classification and generation** accuracy
- Improved **ML pipeline** efficiency through advanced **memory optimization** and **dynamic batch processing**, resulting in faster training cycles and enhanced scalability for large-scale data processing
- Streamlined ML operations with **automated workflows** covering data validation, prompt engineering, and experiment tracking, ensuring consistent results and production-ready analytics deployment

PROJECTS

Customer Lifetime Value (CLV) Optimization System

Python, Scikit-learn, Random Forest, RFM Analysis

- Built automated customer lifetime value analysis system, processing **4,312 customers** with **98.6% prediction accuracy**, enabling data-driven customer segmentation
- Improved customer segmentation through **RFM analysis** and **predictive modeling**, identifying **863 high-value customers** and generating **\$1.3M+ revenue impact insights** for strategic decision-making
- Made business intelligence reporting faster with **automated data pipelines**, reducing manual analysis time by **85%** and delivering actionable insights for executive stakeholders

Real-Time Behavioral Customer Retention System

Python, Scikit-learn, XGBoost, Statistical ML

- Developed behavioral scoring engine giving **15–30 day advance churn alerts** with **76.2% accuracy**
- Identified **5,000 high-risk customers** and recommended **ROI-based interventions**, protecting **\$240–680 in average CLV**.
- Reduced churn response time by **85%**, enabling faster and targeted customer retention strategies using **636 real-time alerts**.

Business Intelligence Dashboard & Performance Analytics Platform

PowerBI, DAX, Data Modeling, ETL

- Designed a PowerBI **dashboard** analyzing **2,400+ transactions** across **1,700+ accounts**, tracking **39.6% gross profit**.
- Uncovered **\$760K+ revenue decline in China** through **country-wise analysis** across **20+ markets**
- Automated data models, **reducing manual reporting by 75%** and delivering **faster insights** for executives.

AREA OF EXPERTISE

Programming & Data: Python, SQL

Advanced Analytics & ML: Predictive Modeling, Customer Segmentation, RFM Analysis, CLV Optimization, Supervised/Unsupervised Learning, Knowledge Distillation

Business Intelligence: PowerBI, Canva, Data Visualization, Dashboard Development, Performance Analytics, Data Strategy

ML Frameworks: Scikit-learn, TensorFlow, PyTorch, HuggingFace, NumPy, Pandas, Matplotlib, Seaborn

Data Engineering: Data Pipelines, ETL Processes, Data Validation, API Integration, EDA

POSITIONS OF RESPONSIBILITY

E-Summit, IIT Bhubaneswar

Web and Design Coordinator

Bhubaneswar, India

2023 - 2024

- Managed all the **digital design for E-Summit**, IIT Bhubaneswar's premier entrepreneurship fest
- Created **50+ posters** and led a team of **40 members** to ensure successful event execution and promotion
- Collaborated** with publicity, events, and other teams to ensure coordinated execution and successful delivery of the fest

INTERESTS & HOBBIES

- Playing badminton regularly for mental refreshment and stress relief after long study sessions
- Going to gym daily to maintain physical fitness and improve work concentration and productivity