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EDUCATION

MS in Computer & Information Science (May 2025) <i>Indiana University - Purdue University, Indianapolis, IN, USA</i>	GPA 3.79
BE in Computer Engineering (May 2022) <i>Savitribai Phule Pune University, Pune, MH, India</i>	GPA 9.25/10

EXPERIENCE

Indiana University Indianapolis Student Researcher	Indianapolis, IN Aug 2024 – Present
<ul style="list-style-type: none">Processed 140,000 multilingual text entries (35K per language) to build scalable distributed NLP pipelines using BERT and SBERT-KMeans.Benchmarked over 180 ensemble configurations by generating intermediate datasets for language-specific model training and evaluation.Achieved macro-F1 scores of 0.85–0.92 by engineering trust-weighted consensus strategies for final prediction aggregation.	
University Library, Indiana University Indianapolis Mailroom Tech Assistant	Indianapolis, IN Jan 2025 – May 2025
<ul style="list-style-type: none">Processed 1,500+ books and packages by managing library acquisitions mailroom workflows, coordinating deliveries across 5 carrier systems over 4 months.Built a Python automation script using Selenium to extract OCLC codes from MARC records into structured CSVs.Reducing manual entry by 90%+ during inter-library loan prep, by parsing institutional metadata to generate lightweight reports.	

PROJECTS

AI-Driven Cloud Auto-Scaling System <i>AWS, SageMaker, Lambda, CloudWatch, Machine Learning</i>
<ul style="list-style-type: none">Reduced costs by 15–25% by predicting CPU usage and auto-scaling resources based on CloudWatch API metrics.Extracted time-series data from CloudWatch API to CSV format and engineered preprocessing pipelines with outlier handling and feature scaling for SageMaker input.Automated metric collection and scaling actions using Lambda and Auto Scaling groups for real-time deployment.
Customer Relationship Management: Web Application <i>PHP, MySQL, Bootstrap, AWS</i>
<ul style="list-style-type: none">Integrated data from Excel sheets and digitized handwritten forms using structured MySQL schema and backend validation tools.Implemented ML model to predict lead conversion probability based on compiled customer data.Built interactive dashboards to visualize metrics over time and track generated leads for real-time insights.Used by over 1,000 users to manage customer leads across cloud-hosted infrastructure.
Enigma Machine Simulator <i>Python</i>
<ul style="list-style-type: none">Designed a modular Python system with separate rotor, plugboard, and reflector components for encryption.Built a command-line interface supporting batch processing of text files and interactive usage.Implemented structured input/output handling and persistent logs to simulate data pipelines.

SKILLS

Languages: Python, C/C++, JavaScript, Java, R
Tech Stack: HTML/CSS, JavaScript, SQL, MySQL, PostgreSQL, NoSQL (MongoDB), AWS, Git, GitHub

PUBLICATION

- ”A Modular Approach to Customer Relationship Management (CRM) Systems”
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