

Ninad Deshpande

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EDUCATION

MS in Computer & Information Science (May 2025)

Indiana University - Purdue University, Indianapolis, IN, USA

GPA 3.79

BE in Computer Engineering (May 2022)

Savitribai Phule Pune University, Pune, MH, India

GPA 9.25/10

EXPERIENCE

Indiana University Indianapolis

Student Researcher

Indianapolis, IN

Aug 2024 – Present

- 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

Indianapolis, IN

Mailroom Tech Assistant

Jan 2025 – May 2025

- 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

AWS, SageMaker, Lambda, CloudWatch, Machine Learning

- 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

PHP, MySQL, Bootstrap, AWS

- 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

Python

- 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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