

Ninad Deshpande

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EDUCATION

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

EXPERIENCE

Indiana University Indianapolis <i>Graduate Student Researcher</i>	Indianapolis, IN <i>Aug 2024 – Present</i>
<ul style="list-style-type: none">Processed 140K multilingual text entries using BERT and SBERT-KMeans to build scalable NLP pipelines for distributed model trainingBenchmarked over 180 configurations and engineered trust-weighted consensus strategies, achieving macro-F1 scores of 0.85–0.92 across language-specific modelsDebugged data encoding and pipeline errors using Python debugger and logging frameworks, resolving 20+ critical failures in processing workflows	
University Library, Indiana University Indianapolis <i>Mailroom Assistant</i>	Indianapolis, IN <i>Jan 2025 – May 2025</i>
<ul style="list-style-type: none">Proactively developed Python/Selenium script to automate OCLC code extraction from MARC records for library technical support, reducing manual processing time by 90%+	

PROJECTS

AI-Driven Cloud Auto-Scaling System <i>AWS, SageMaker, Lambda, CloudWatch, Machine Learning</i>
<ul style="list-style-type: none">Reduced cloud infrastructure costs by 15–25% by developing ML-based CPU prediction model using CloudWatch API and SageMaker for automated resource scaling decisionsEngineered preprocessing pipelines with outlier detection and feature scaling, processing CloudWatch time-series data into structured CSV format for model training
Customer Relationship Management: Web Application <i>PHP, MySQL, Bootstrap, AWS</i>
<ul style="list-style-type: none">Designed RESTful API endpoints using PHP and MySQL for customer operations, supporting 1,000+ users and processing 5,000+ records with backend validationEngineered ML model achieving 85% accuracy for lead conversion prediction and built interactive JavaScript dashboards for real-time metric visualization
Enigma Machine Simulator <i>Python</i>
<ul style="list-style-type: none">Architected modular Python encryption system with separate rotor, plugboard, and reflector components, accurately replicating historical Enigma machine cryptographic operationsImplemented pytest unit testing achieving 100% code coverage and developed CLI supporting batch file processing with structured error handling

SKILLS

Languages: Python, C/C++, Java, JavaScript, R, SQL
Technologies: AWS (Lambda, SageMaker, CloudWatch), HTML/CSS, JavaScript, SQL, NoSQL, Git, GitHub
ML/NLP: BERT, SBERT, scikit-learn, Pandas
Development Tools: Visual Studio Code, PyCharm, IntelliJ IDEA, Eclipse

PUBLICATION

"A Modular Approach to Customer Relationship Management (CRM) Systems" IJARSCT Vol. 2, Issue 1, September 2022 DOI: 10.48175/IJARSCT-7119
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