

# Ninad Deshpande

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## EDUCATION

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

## EXPERIENCE

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

## PROJECTS

<b>AI-Driven Cloud Auto-Scaling System</b> <i>AWS, SageMaker, Lambda, CloudWatch, Machine Learning</i>	
<ul style="list-style-type: none"><li>Reduced cloud infrastructure costs by <b>15–25%</b> by developing ML-based CPU prediction model using <b>CloudWatch API</b> and <b>SageMaker</b> for automated resource scaling decisions</li><li>Engineered preprocessing pipelines with outlier detection and feature scaling, processing CloudWatch time-series data into structured CSV format for model training</li></ul>	
<b>Customer Relationship Management: Web Application</b> <i>PHP, MySQL, Bootstrap, AWS</i>	
<ul style="list-style-type: none"><li>Designed <b>RESTful API</b> endpoints using PHP and MySQL for customer operations, supporting <b>1,000+</b> users and processing <b>5,000+</b> records with backend validation</li><li>Engineered ML model achieving <b>85% accuracy</b> for lead conversion prediction and built interactive JavaScript dashboards for real-time metric visualization</li></ul>	

## Enigma Machine Simulator

<i>Python</i>
<ul style="list-style-type: none"><li>Architected modular Python encryption system with separate rotor, plugboard, and reflector components, accurately replicating historical Enigma machine cryptographic operations</li><li>Implemented pytest unit testing achieving <b>100% code coverage</b> and developed CLI supporting batch file processing with structured error handling</li></ul>

## SKILLS

<b>Languages:</b> Python, C/C++, Java, JavaScript, R, SQL
<b>Technologies:</b> AWS (Lambda, SageMaker, CloudWatch), HTML/CSS, JavaScript, SQL, NoSQL, Git, GitHub
<b>ML/NLP:</b> BERT, SBERT, scikit-learn, Pandas
<b>Development Tools:</b> 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**