

Ninad Deshpande

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EDUCATION

Master of Science in Computer & Information Science (May 2025)	GPA 3.79
<i>Indiana University - Purdue University, Indianapolis</i>	
Bachelor of Engineering in Computer Engineering (May 2022)	CGPA 9.25 / 10.00
<i>Savitribai Phule Pune University</i>	

EXPERIENCE

Mailroom Assistant	Jan 2025 – May 2025
<i>University Library, Indiana University Indianapolis Indianapolis, IN</i>	
<ul style="list-style-type: none">Executed efficient mailroom operations, managing high-volume incoming and outgoing library deliveries.Proactively developed Python automation tool using Selenium to streamline OCLC code extraction from MARC records, improving interlibrary loan processing efficiency.Automated institutional data parsing from OCLC directories, generating structured CSV/TXT reports that eliminated 90%+ of manual processing tasks.	

PROJECTS

Cyberbullying Detection with Distributed Computing
<i>Python, BERT, LogReg, Cohere, Distributed Systems, ML, NLP</i>
<ul style="list-style-type: none">Designed peer-to-peer distributed system architecture for multilingual cyberbullying detection, addressing scalability challenges in content moderation across English, Hindi, Marathi, and Bengali languages.Implemented Subject Matter Expert (SME) clustering to create specialized detection nodes, simulating domain-specific expertise in distributed computing environments.Developed ensemble consensus strategies using incremental learning with dynamic trust weighting, achieving macro F1 scores of 85-92%.Conducted comprehensive evaluation of 180+ model configurations, demonstrating effectiveness of distributed architectures for multilingual NLP tasks.
AI-Driven Cloud Auto-Scaling System
<i>Python, AWS, SageMaker, Lambda, CloudWatch, Machine Learning</i>
<ul style="list-style-type: none">Developed an AI-driven predictive scaling system using AWS services to optimize resource allocation and reduce operational costs by 15-25% compared to traditional auto-scaling methods.Implemented time-series forecasting model with Amazon SageMaker using Linear Regression to predict CPU usage 15 minutes ahead, achieving macro-F1 scores of 0.85+ across test datasets.Engineered automated scaling pipeline with AWS Lambda, CloudWatch metrics collection, and Auto Scaling groups for near real-time resource management.
Enigma Machine Simulator
<i>Python</i>
<ul style="list-style-type: none">Simulated the WWII Enigma encryption mechanism with configurable rotor and plugboard settings.Built an interactive command-line interface to demonstrate encryption-decryption cycles.Added persistent message history and automated cipher routines for usability.

SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, SQL, R
Web, Cloud & DevOps: HTML/CSS, JavaScript, NoSQL (MongoDB), AWS, Git, GitHub
Core Competencies: Machine Learning, Distributed Programming, Database Design, Data Analysis, Predictive Analytics, Time-Series Forecasting, Cloud Computing, Prompt Engineering

PUBLICATION

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- "A Modular Approach to Customer Relationship Management (CRM) Systems"
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
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