Ninad Deshpande

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(317) 491 - 8753

EDUCATION

MS in Computer & Information Science — GPA 3.79
Purdue University, Indianapolis, IN, USA — *May 2025*

BE in Computer Engineering — GPA 9.25/10
Savitribai Phule Pune University, Pune, MH, India — *May 2022*

EXPERIENCE

Indiana University Indianapolis — Indianapolis, IN
Graduate Student Researcher — *Aug 2024 – Present*
- Processed **140K** multilingual text entries using BERT and SBERT-KMeans to build scalable NLP pipelines for distributed model training
- Benchmarked over **180 configurations** and engineered trust-weighted consensus strategies, achieving macro-F1 scores of **0.85**–**0.92** across language-specific models
- Debugged data encoding and pipeline errors using Python debugger and logging frameworks, resolving **20+** critical failures in processing workflows

University Library, Indiana University Indianapolis — Indianapolis, IN
Mailroom Assistant — *Jan 2025 – May 2025*
- 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
AWS, SageMaker, Lambda, CloudWatch, Machine Learning
- Reduced cloud infrastructure costs by **15–25%** by developing ML-based CPU prediction model using **CloudWatch API** and **SageMaker** for automated resource scaling decisions
- Engineered 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
PHP, MySQL, Bootstrap, AWS
- Designed **RESTful API** endpoints using PHP and MySQL for customer operations, supporting **1,000+ users** and processing **5,000+ records** with backend validation
- Engineered ML model achieving **85% accuracy** for lead conversion prediction and built interactive JavaScript dashboards for real-time metric visualization

NearZero: Privacy-First Task Manager
React, Vite, localStorage, JavaScript
- Architected **100% client-side** task management system using **localStorage API**, implementing CRUD operations, UTC/local timezone conversion, and JSON import/export for offline-first data management
- Engineered dynamic urgency visualization system with **adaptive refresh intervals** (1-min urgent, 5-min normal), deadline calculations and rendering responsive multi-column layouts with density controls

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