Visho Malla Oli

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EDUCATION

University of Mississippi | Oxford, MS **May 2026**

Bachelor of Science in Computer Science (Honors), Data Science Emphasis, Mathematics Minor

Affiliations: Public Relations Officer, ACM Member, Coding Club (2023), Honor's Roll, MC NEPSA (2024), Sally McDonell Honors College

EXPERIENCE

Data Engineering Intern | Batesville, MS **Feb 2025 - Present**

Insituform Technologies, LLC

- Built a dynamic Value Stream Map in Power BI using Amper REST API with Python/SQL pipelines, enabling real-time tracking of throughput, cycle time, and headcount.
- Automated data entry with an open-source GPT-4All with RAG pipeline, improving productivity by 300% and reducing manual errors.
- Designed a digital manufacturing framework migrating paper-logs to Power Apps, Dataverse, and SharePoint, laying the foundation for future SQL Server integration.

Teaching Assistant | Oxford, MS **Aug 2024 - May 2025**

Ole Miss Department of Computer Science

- Hosting **15** weekly office hours and lab assistance for over **200** students enrolled in CSCI 111/211/256.
- Proctored exams and contributed in development of grading rubrics for assignments.

ML Engineering Intern | Remote **Sep 2024 - Dec 2024**

Fellowship.AI

- Collaborated with a team of 18 engineers to develop FastAPI services with PostgreSQL (Neon), enabling structured storage of 100+ real estate and finance listings per run.
- Pioneered a 6-layer control variable system that eliminated system crashes and improved data validation, ensuring 95% data integrity across pipelines.
- Benchmarked autonomous agents on 120+ actions, with Gemini Browser-Use Agent achieving 87.5% overall accuracy (F1: 90% scroll, 90.1% return values) compared to Perplexity Sonar's strong factual QA.

Summer Coding Intern | Stoneville, MS **May 2024 - Jul 2024**

Delta Health Alliance

- Taught AI fundamentals through projects like rock-paper-scissors prediction to 30 students at Camp 2.0, increasing retention by 15%.

PROJECTS

Neural Bus Schema | Python, FastAPI, OpenCV, ResNet-50 **Aug 2025 - Present**

- Drafted the system-design for a "neural bus" to route information between specialized AI models (vision, language, memory).
- Building cross-modal translation pipelines to test semantic preservation, measured by cycle consistency > 70% on round trip tests.
- Preparing an evaluation framework with semantic similarity to benchmark early prototypes against baseline models.

DiaDetect | Python **Sept 2024 - Dec 2024**

- Built custom data engineering pipelines on BRFSS2015 public health dataset (70k+ samples) with domain-driven feature selection, producing clean dataset for model training.
- Applied SHAP values and PCA, improving interpretability and raising F1 score by 3.6%, highlighting influential health risk factors.
- Fine-tuned XGBoost with GridSearchCV, optimizing n-estimators & learning rate, achieving an ROC AUC of 83.1% on the test data.

EcoGuard (HackHarvard 2024)| Next.js, Web3Auth, Neon, Gemini **Sept 2024 - Dec 2024**

- Developed a full stack waste management platform using Next.js 14 and Gemini 1.5 Flash, with a real-time task system and reward incentives, increasing community engagement by 50% during pilot testing at Harvard University.

TECHNICAL SKILLS

Languages & Data: C++, **Java**, JavaScript, **Python**, **R, Scala**, **SQL,** Pandas, NumPy, MATLAB

Data Engineering: FastAPI, **Docker**, MongoDB, PostgreSQL (Neon), **Power BI**, **Tableau**, EDA, A/B Testing, Statistical Analysis

ML & AI: TensorFlow, Keras, Scikit-Learn, **Transformers**, XGBoost, **OpenAI API**, Google Gemini API, DeepSeek API

Cloud & Tools: Git/GitHub, **AWS**, GCP, Azure, Jupyter, Figma, PowerShell, Microsoft 365