Visho Malla Oli

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EDUCATION

University of Mississippi, *Bachelor of Science in Computer Science* May 2026 | University, MS
- **Emphasis:** Data Science | **Minor:** Mathematics | Chancellor's Honor Roll (2022/23) | Valedictorian | SMBHC Honors Student
- **Leadership :** Public Relations Officer, NEPSA (2024), Master of Ceremony NEPSA (2023), ACM Member, Coding Club (2023)
- **Relevant Coursework:** Data Mining, Trustworthy ML, Statistics, Algorithms, Software Engineering, Entrepreneurship, Robotics

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PROFESSIONAL EXPERIENCE

Teaching Assistant - CSCI 111/211/256/356, *University of Mississippi* Aug 2024 – present | University, MS
- Led **Python and Java labs**, assisting students write clean code, and adherence to the labQ system, achieving a **99% lab completion rate**.
- Guided students in algorithm design, coding practices, and exam preparation during office hours and virtual sessions.
- Applied **academic integrity protocols** to maintain **100% compliance with university standards** during exams.

Machine Learning Engineer, *Fellowship.AI* Sep 2024 – Dec 2024 | Remote
- Developed **autonomous AI agents** using **LangChain, SeaAct, and WebLlama** to extract real-time interest rates from financial websites.
- Tested the AI Agent, fixing and fine tuining the hyperparameters, achieving **47% extraction accuracy** and reducing latency by **11%.**
- **Learned from PhD students** on customizing agents for dynamic data retrieval, error handling, and task optimization.

Summer Camp Coding Intern, *Delta Health Alliance* May 2024 – Jul 2024 | Stoneville, MS
- **Taught Python & AI fundamentals** to students in an interactive summer program resulting in **25% improvement in student retention**.
- Designed engaging projects such as **a Python-based password manager with AES encryption and secure credential storage.**

PROJECTS

SmartRez IT Automation, Dec 2023 – Feb 2024
Automated RA reporting in StarRez using Python, Selenium, and PowerShell
- Developed a **Python Selenium WebDriver script** to automate **intentional interaction form submissions**, addressing the **tedious navigation pain points** faced by **Resident Assistants (RAs) managing 50+ students each** in StarRez Housing Platform.
- **Tested in Stewart Hall (4 floors), cutting form time from 5 min to 30 sec**, processing **200+ entries per run** with **bulk automation**.
- **Integrated PowerShell for script execution**, reducing manual intervention and ensuring consistent automation workflows.

DiaDetect, *Machine Learning Model for Diabetes Detection* Sep 2024 – Dec 2024
- Preprocessed **BRFSS2015 public health data, with 50-50 split**, implementing **custom data engineering pipelines**, collaborating with social science majors for **domain-specific feature selection**, and generating a **cleaned CSV dataset** for optimized model development.
- Utilized **SHAP values** and **PCA** to enhance **feature interpretability** and **reduce dimensionality**, leading to a **3.6%** increase in **F1 score.**
- Fine-tuned an **XGBoost model** using **GridSearchCV,** optimizing n-estimators, max depth, learning rate, and subsample ratio achieving an **ROC AUC** score of **83.12%.**

EcoGuard (HackHarvard 2024), *AI-Powered Waste Management Platform* Oct 2024
- Developed a **waste management platform** using Next.js 14, designed to **incentivize waste reporting** and streamline collection efforts.
- Implemented **Gemini-AI waste classification** and a **user reward system**, increasing community engagement by 50% during pilot testing.
- Built a **real-time task management system** for waste collection, integrating **Web3Auth, Drizzle ORM**, and **Neon Database** scaling the initiative at Harvard University.

ORGANIZATIONS

International Symposium on Computer Architecture, Jun 2024
uArch 2024 Undergraduate Participant & Full Grant Recipient
- Awarded a **fully funded travel grant** to participate in **computer architecture research workshops** in Buenos Aires, Argentina.
- Attended in ISCA conference, engaging with industry leaders to explore cutting-edge advancements in computer architecture, AI acceleration, and hardware design principles.

Oxford High School, *Robotics Competition Judge* May 2024
- Served as a judge at the **VEX Robotics Tournament 2024**, conducting interviews on technical skill, innovation, and teamwork.
- Conducted **in-depth student interviews** and rigorous criteria to evaluate and determine winners across multiple award categories.

SKILLS

Programming: Python, Java, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, C++, PHP, MongoDB, PostgreSQL, Neon, Wordpress
Software & Tools: Git/GitHub, AWS, Google Cloud, Azure, Tableau, Power BI, Figma, Excel, Word, Microsoft 365, PowerShell, Oracle
Machine Learning & AI: TensorFlow, Keras, Pandas, NumPy, Scikit-Learn, Transformers, OpenAI API, DeepSeek API, Google Gemini API
Data Science & Visualization: Exploratory Data Analysis, A/B Testing, Statistical Analysis, Sentiment Analysis, Hypothesis Testing
IT & Troubleshooting: Software Installation & Configuration, IT Automation, Help Desk Support & Ticketing Systems, Web Maintenance