

# RAGHAV DOSHI

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## EDUCATION

### Mississippi State University

Sept 2022 – May 2025

*Bachelor's in Computer Science, GPA 4.0/4.0*

*Starkville, MS*

Coursework: Machine Learning, Software Development, Statistics, Database Management, Data Structures, Algorithm Analysis, Artificial Intelligence, Machine Learning and Soft Computing

## SKILLS

**Analyzing and Visualization tools:** Google Analytics, Power BI, Microsoft Azure, Amazon Web Services, Hadoop, Docker, Google Cloud, ROS, Flutter-App Development

**Programming Languages:** SQL, Python, R, SPSS, Java, SAS, SAP, C, C++, C

**Database Management Systems:** Microsoft SQL Server, MySQL, Oracle, PostgreSQL, NoSQL, SSRS, SSIS, MongoDB

## EXPERIENCE

### Mississippi State University

May 2024 – Sep 2024

*Research Assistant - Data Science*

*Starkville, MS*

- Analyzed large GHG emissions datasets from over 10,000 facilities using Pandas, NumPy, SciPy, and matplotlib to provide data-driven insights for sustainable management
- Conducted detailed environmental impact assessments of emissions data using SQL for database management, providing critical insights that informed sustainable resource management strategies
- Created business plan for incubated research and data collections that helped secure \$5 Million in funding

### ORS Infotech Pvt. Ltd

May 2023 – Aug 2023

*Software Engineer*

*Remote, India*

- Designed an intuitive UI for the VS open file switcher (Ctrl-Tab) and expanded functionality to include tool windows, enhancing user navigation and productivity
- Designed and implemented a MySQL database to support web applications, optimizing data retrieval and storage for enhanced system performance
- Spearheaded multiple data collection processes using SharePoint and Power Automate
- Leveraged R for backend data analysis, improving data-driven decision-making and enabling seamless integration with frontend applications to software projects, including gallery management, video gallery management, and event management systems, ensuring successful project execution and feature delivery

## PROJECTS

### Diabetes Diagnosis Expert System | *Machine Learning, CLIPS*

Aug 2024-Dec 2024

- Developed a rule-based expert system using CLIPSPY for diabetes diagnosis, alongside a predictive machine learning model with PyTorch to assess risk levels based on the Diabetes Health Indicators Dataset
- Enhanced prediction accuracy by integrating a Bayesian network to account for uncertain risk factors (e.g., age, obesity, family history) and designed a user-friendly interface for effective user interaction

### AI-Based Data Structure Suggester | *Artificial Intelligence, Python libraries for ML*

Aug 2024-Dec 2024

- Developed an AI-driven Data Structure Suggestor that leverages NLP and machine learning algorithms to analyze problem descriptions and recommend optimal data structures for efficient coding solutions
- Integrated PyTorch and scikit-learn for model training, with a user interface built in PyQt5 to provide interactive suggestions and visualizations for enhanced user experience

### E-Commerce Webstore: Online Database | *Full-Stack Software Development*

Jan 2024- April 2024

- Developed a secure, scalable MySQL database for customer and admin logins, with a Python backend for efficient data processing and secure access control, and a responsive React and Java frontend to enhance user experience
- Streamlined deployment and version control with DB Browser, MySQL, and GitHub, ensuring seamless application management and updates

## LEADERSHIP AND AWARDS

- Awarded Dean's List and President's List honors at Mississippi State University for academic excellence and significant contributions to the university community
- As President of the Indian Student Association at Mississippi State University, organized cultural events and support initiatives to strengthen community engagement for international students