

LOKESH REDDY DARUKUMALLI

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EDUCATION

U OF SOUTHERN MISSISSIPPI MS IN COMPUTER SCIENCE

May 2025 | Hattiesburg, Mississippi

COURSEWORK

GRADUATE

Advanced Algorithms & Data Structures •
Cloud Computing • Machine Learning •
Software Design • Web Development •
Computer Architecture • Database
Management System

SKILLS

Languages:

Python • C • Java EE • JavaScript •
TypeScript • SQL

Technologies:

Supervised Machine Learning Algorithms, •
Unsupervised Machine Learning Algorithms,
• Deep Learning Algorithms.

Front-End:

React.js • Vue. Js • Angular 2+ • HTML5
• Bootstrap • CSS

Database:

Microsoft SQL Server • Oracle • MySQL
• Azure SQL Server • Postgre SQL

Cloud:

Docker • CI/CD • Azure App Services •
Azure Virtual Machine • Application
Insights • AWS ECS • AWS S3 • AWS
EC2 • AWS SQS • AWS Lambda • AWS

Tools and Methodology:

Agile • Scrum • Waterfall • Azure DevOps
• Docker Desktop • Postman • Git • Team
Foundation Server (TFS) • Swagger •
Visual Studio • Visual Studio Code • JIRA
• Slack • SonarQube • Eclipse • Azure
Storage Explorer • GitHub Desktop

CERTIFICATIONS

- Certified in **Azure AZ-900: Microsoft Azure Fundamentals (AZ-900)**.
- Certified in **JavaScript Algorithms and Data Structures (Beta): freeCodeCamp**.
- Certified in **Python Programming: Microsoft**.
- Certified in **Responsive Web Design: freeCodeCamp**.
- Certified in **problem-solving challenge: HackerRank**.

EXPERIENCE

U OF SOUTHERN MISSISSIPPI | Teaching ASSISTANTSHIP

Aug 2024 - Jan 2025 | Hattiesburg, Mississippi.

- Assisted faculty in preparing and delivering lectures, tutoring students, grading assignments, and proctoring exams. Managed class materials, corresponded with students via email and Teams, and held office hours for additional support.
- Developed skills in tutoring, programming, data analysis, and web application development while fostering collaborative problem-solving.

TOURSLOG | SOFTWARE DEV INTERN

Aug 2022 - Feb 2023 | Remote.

- Designed and developed the UI for a user-friendly landing page, enabling seamless sign-in and sign-up features. Built a dedicated admin panel for efficient user data management and implemented a Forgot Password UI for users needing password recovery.
- Resolved challenges like API integration, responsive design, and secure password reset by leveraging solutions from Stack Overflow. Optimized UI functionality and backend configurations using Spring Boot, Vue.js, and AWS, ensuring seamless performance.
- Gained experience with Spring Boot, Vue.js, AWS, and Java Message Service (JMS), while addressing user requirements and delivering robust solutions.

AVODHA EDUTECH PVT LTD | BUSINESS DEVELOPMENT EXE

Aug 2021 - July 2022 | Hyderabad, India.

- Collaborated with the sales team to identify target markets and develop effective sales strategies. Analyzed customer feedback from surveys and focus groups to implement actionable improvements
- Monitored project progress against management goals and contributed to revenue growth by hiring and mentoring trainable team members. Developed expertise in business planning, development, and analysis.

PROJECT

RAMIE CROP DISEASE MONITORING | NSF FUNDED PROJECT

Nov 2023 - Present | Hattiesburg, Mississippi | AI, ML Models

- Developed and evaluated ML and DL models for plant disease detection to enhance crop yields and reduce losses. Trained models on a dataset of 2,310 images, comparing traditional ML models (Naive Bayes, KNN, Random Forest, SVM) with DL models (CNNs, VGG16, ResNet50, MobileNet).
- Achieved superior classification accuracy with CNN architecture and MobileNet, highlighting the effectiveness of DL. Contributed to research on federated learning for scalable agricultural disease detection.

FACE RECONGITION BASED ATTENDANCE SYSTEM | USM

Sep 2023 - Dec 2023 | Hattiesburg, Mississippi | Vue.js, MCTNN, FaceNet

- Developed a user-friendly attendance system with separate interfaces for professors and students to enhance efficiency and accuracy.
- Professors input details such as room number, course name, and upload group images, which are processed using advanced facial recognition algorithms (FaceNet and MTCNN) to identify and record attendance in real-time.
- Leveraged Vue.js and machine learning algorithms to streamline the attendance management process.