

DIVYA SRI KOSARAJU

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SUMMARY

Driven Computer Science Master's student with expertise in Artificial Intelligence, Machine Learning, software development, and web technologies. Proficient in programming and problem-solving, eager to leverage skills to design, develop, and optimize innovative solutions.

PROFESSIONAL EXPERIENCE

Research Project Intern, SRM University | Amaravati, India

Jan '24 - May '24

- Engineered an ensemble learning model integrating VGG, DenseNet, and ResNet architectures with decision-level fusion to classify COVID-19 from chest X-ray images
- Optimized diagnostic accuracy and efficiency, achieving 85% classification accuracy across three classes, enabling faster and more reliable disease detection.

Interdisciplinary Project, SRM University | Amaravati, India

Aug '22 - Dec '22

- Developed an AI-powered machine learning solution for automated crop pest detection and classification using Random Forest, K-Nearest Neighbor, and Naive Bayes.
- Trained models on high-resolution agricultural pest images, optimizing accuracy and efficiency to reduce manual identification errors and labor costs. Demonstrated the potential of ML in precision agriculture for sustainable pest management.

Web Developer Intern, Solar Secure Solutions | Remote, India

Jun '22 - Aug '22

- Developed and optimized user interfaces using HTML, CSS, JavaScript, and PHP, increasing user engagement by 25%.
- Efficiently completed company-assigned tasks by streamlining troubleshooting and enhancing code documentation, improving development workflows and maintainability.

PROJECTS

EMNIST Digits and Letters Recognition | Python, Tensorflow

Dec '24

- Developed and evaluated deep learning models, including MLP, ViT, DenseNet, ResNet, and RNN with LSTM, for character recognition using the EMNIST dataset. Achieved 90% accuracy with the ViT model through advanced hyperparameter tuning. Collaborated on performance comparison and model optimization.

Mini ERP Portal for Educational Institutions | HTML, CSS, JavaScript, PHP, MySQL

Jul '23

- Engineered a mini-ERP portal to centralize student data management and academic performance tracking. Implemented backend functionality with PHP and MySQL, ensuring seamless data integration and accessibility.

TECHNICAL SKILLS

Programming: C, C++, Python, Java, C#, JavaScript, HTML, CSS, PHP, Bash, Kotlin, Prolog

Libraries/Framework/Tools/Databases: React.js, Node.js, Django, .NET, MySQL, JSON, JQuery, Microsoft Office, Eclipse, Google Collab, GitHub, Visual Studio, Jupyter Notebook, Tensorflow, Keras, Scikit-learn, Matplotlib, Pandas, OpenCV

DevOps & Cloud: Azure Cloud Services, CI/CD, Website Deployment, DevOps, Performance Security

Soft Skills: Interpersonal Collaboration, Analytical Reasoning, Problem Solving, Self-Motivation, Adaptability, Articulate Communication, Quick Learning, Detail Orientation, Multitasking Efficiency

Courses: Artificial Intelligence, Machine Learning, Computer Vision, Natural Language Processing, Data Structures & Algorithms, Research, Operating Systems, Computer Architecture and Organisation, Design and Analysis of Algorithms, Software Engineering, Data Analytics, Object Oriented Programming, Image Processing

EDUCATION

Masters in Computer Science - University Of Central Florida | 3.912 /4.0

Aug '24 - May '26

Bachelors of Technology - SRM University, India | 3.5 /4.0

Jul '20 - May '24

Specialization: Artificial Intelligence and Machine Learning **Minor:** English

PUBLICATIONS

Comparative Study of ML Techniques for Classification of Crop Pests

Feb '25

Published in the **2024 4th International Conference on Artificial Intelligence and Signal Processing (AISP)**, [IEEE](#).

The study leverages Random Forest, K-Nearest Neighbor, and Naive Bayes for automated pest detection, achieving high accuracy and improving agricultural pest management efficiency. (DOI: 10.1109/AISP61711.2024.10870737)

ADDITIONAL INFORMATION

Certificates: Microsoft Full Stack Developer, HackerRank Problem Solving, Python Basic, Education Leadership NPTEL

Scholarships: Received a merit scholarship of 50% for tuition fees associated with SRM University.

Volunteering: Taare Zameen Foundation NGO, Fundraiser | India

May '22-Jun '22

Fundraising Initiative: Raised funds to support the project "Donate a Ration Kit, providing essential food supplies to underprivileged families facing hunger during the lockdown"

Languages: English, Telugu, Hindi

Interests: Photography, Travel, Music, Badminton, LeetCode, HackerRank

Activities/Clubs: Sports, Volunteering, AI & ML Research Club, Cashier(Knightstop UCF)