

Donapati Hemalatha

✉ hemalathareddy.7254@gmail.com ☎ +917702147254 🔗 linkedin.com/in/hemalatha-donapati/
🐙 github.com/hemalatha0303

SUMMARY

B.Tech Artificial Intelligence and Machine Learning student with hands-on experience in Python, SQL, and AWS cloud development. Skilled in building and deploying Machine Learning and Deep Learning models using TensorFlow and Keras for real-world projects such as Learning Buddy and Car Sales Prediction. Focused on model training, evaluation, and hyperparameter tuning to develop scalable, data-driven, and production-ready AI solutions.

EDUCATION

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| Bachelor of Technology - Artificial Intelligence and Machine Learning Vasireddy Venkatadri Institute of Technology 8.76 CGPA | 2022 – 2026 |
| Intermediate Vijaya Jyothi Junior college 93.7% | 2020 – 2022 |
| SSC Sri Viswa Santhi high school 99% | 2019 – 2020 |

INTERNSHIPS

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| Transfer Learning-Based Poultry Disease Classification Web App SmartInternz (Virtual) | 05/2025 – 07/2025 |
| <ul style="list-style-type: none">• Collaborated to build a Transfer Learning-based Poultry Disease Classification Web App using ResNet & EfficientNet, achieving 92% accuracy on image datasets.• Developed and deployed a Flask full-stack app with real-time image upload, predictions, and prediction confidence scoring.• Integrated RESTful API and implemented logging features to improve system scalability and reliability. | |

PROJECTS

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| Handwritten Digit Recognition - Deep Learning with Python |
| <ul style="list-style-type: none">• Built and trained a CNN using TensorFlow and Keras to classify handwritten digits (0–9), achieving 80% accuracy through effective model evaluation and loss minimization. Deployed the model using Jupyter, showcasing real-time predictions and performance metrics. |
| Car Sales Prediction Model - Web-Based Forecasting App |
| <ul style="list-style-type: none">• Developed a regression ML model to predict car sales using historical data, achieving R² score of ~0.85. Built a dynamic web interface with HTML and Flask, and deployed the full-stack app on AWS EC2 using CodePipeline. |
| Learning Buddy - 24/7 AI Study Companion |
| <ul style="list-style-type: none">• Developed Learning Buddy, an AI-powered study app delivering personalized quizzes, flashcards, and adaptive learning, achieving 90% user quiz completion accuracy. Built with Streamlit, Firebase, SendGrid, Mistral-7B, and LangChain for real-time interactive learning. |

TECHNICAL SKILLS

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| <ul style="list-style-type: none">• Languages: Python, Java, SQL, HTML, CSS• Problem Solving: Data Structures and Algorithms(DSA), Object-Oriented Programming(OOP)• AI/ML & NLP: CNNs, Prompt Engineering, Retrieval-Augmented Generation (RAG), LangChain• Frameworks & Libraries: TensorFlow, Keras, scikit-learn, Pandas, NumPy• Databases: MySQL, Oracle• Cloud & DevOps: AWS (EC2, S3, CodePipeline), GCP (GenAI Labs), Git/GitHub• Soft Skills: Inspirational Leadership, Accountability, Versatility, Collaborative Spirit, and Intrinsic Motivation |
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CERTIFICATES

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| <ul style="list-style-type: none">• Oracle – OCI AI Foundations Associate• AWS Certified – AI practitioner• HarvardX (edX) – Introduction to Data Science• NPTEL – Python Programming• Infosys – Machine Learning, Oracle SQL• WorldQuant University – Deep Learning for Computer Vision |
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