

Laukya Gowni

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Summary

Enthusiastic undergraduate in Artificial intelligence and Machine Learning, with a focus on Deep Learning and Natural Language Processing. Skilled in C, Python, and Java, with strong problem-solving abilities, along with beginner-level proficiency in HTML. Experienced in working on projects involving deep learning. Enjoys collaborating with others to achieve shared goals and articulate concepts through strong presentation skills. A drive to learn leveraging technology and develop cutting-edge solutions.

Education

BACHELOR OF TECHNOLOGY

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| CSE (Artificial Intelligence & Machine Learning) | 2022-2026 |
| B V Raju Institute of Technology, Telangana | 9.16 (till 5th semester) |

INTERMEDIATE

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| M.P.C. | May 2022 |
| Narayana Junior College, Telangana | 98.7 |

SECONDARY SCHOOL EDUCATION

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| Keshava Reddy IIT & Med Foundation, Telangana | March 2020 |
| | 10.0 |

Skills & Competencies

PROGRAMMING AND DEVELOPMENT

Languages: Python, Java, C, SQL, HTML, CSS
Frameworks & Libraries: TensorFlow, PyTorch, Keras, Scikit-learn, NLTK, SpaCy, Pandas, NumPy, Transformers
Databases: SQL (Management, Query Optimization)

FOCUSED SKILLS

Machine Learning & Deep Learning: Neural Networks, Computer Vision, NLP, Transfer Learning, Model Optimization
Core Programming: Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA)
Data Management: Data Augmentation, Feature Engineering

INTERPERSONAL AND COGNITIVE SKILLS

Team Building & Collaboration, Effective Communication, Public Speaking, Adaptability
Problem-Solving, Multitasking Abilities, Attention to Detail, Critical Thinking, Creativity & Innovation

Certifications

- The Joy of Computing Using Python - NPTEL - Oct 2023
- Database Programming with SQL - Oracle Academy - Dec 2023
- Privacy and Security in Online Social Media - NPTEL - April 2024
- Responsible and Safe AI Systems - NPTEL - Oct 2024
- Soft Skills - NPTEL - Oct 2024
- Introduction to Cyber Security - Infosys - Jan 2025
- NLP for Developers - Infosys - Jan 2025

Projects

MULTI-SCALE CONVOLUTIONAL NEURAL NETWORK FOR IMAGE CLASSIFICATION

- Implemented a multi-scale convolutional approach with GoogLeNet to enhance classification accuracy on large-scale datasets.
- Utilized FastAI's DataBlock API for dataset preprocessing and applied fine-tuning on GoogLeNet using transfer learning

BREAST CANCER CLASSIFICATION - COMPARING RENOWNED CNN ARCHITECTURES

- Developed an automated breast cancer classification system, enhancing ultrasound diagnosis, improving diagnostic precision and addressing imaging challenges.
- Integrated preprocessing techniques like Data Augmentation, Median Filtering, TV Denoising, Random Upsampling to refine model accuracy.

MACHINE UNLEARNING FOR FACIAL RECOGNITION PRIVACY

- Designed a custom ResNet-18 model and implemented unlearning techniques (SCRUB, UNSIR, NegGrad) to remove sensitive facial data while maintaining model accuracy.
- Evaluated privacy preservation using Membership Inference Attack (MIA) and optimized learning retention through selective layer fine-tuning.

NAS-BASED MODEL BUILDING FOR HUMAN POSE ESTIMATION

- Designed a Cell-based Neural Fabric (CNF) that leverages neural architecture search (NAS) to optimize human pose estimation by learning both micro and macro structures.
- Utilized part-specific NAS models, to significantly enhance both accuracy and efficiency.

JEWELRY BRAND WEBSITE - FRONT-END DEVELOPMENT

- Designed a fashion jewelry brand website to showcase a summer collection with a visually appealing and user-friendly interface.
- Developed the website using HTML and CSS, incorporating basic JavaScript for interactivity and ensuring a responsive design for seamless viewing across devices.

Events & Hackathons

SMART INDIA HACKATHON

Sep 2024

Govt. of India

Submitted an idea for a Real-Time Speech and ISL Translator that enables seamless bidirectional translation between spoken language and ISL
Qualified to next round in internal hackathon

TECHGIUM

Oct 2024

L&T Technology Services Limited

Submitted an idea on improving the explainability of AI medical diagnoses through Grad-CAM

FRONT-END WEB DEVELOPMENT WORKSHOP

Feb 2025

TechGyan Workshop Series, BITS Hyderabad

Gained hands-on experience in front-end development, learning HTML, CSS, JavaScript, and an introduction to MongoDB.

Applied the skills in the hackathon challenge and won by recreating the organizer's webpage.

Publications

SECURING PERSONAL IDENTITY IN FACIAL RECOGNITION: THE SHIFT TO MACHINE UNLEARNING

4th International Conference on Sustainable Expert Systems (ICESES 2024)

Publisher: IEEE

Dec 2024

INTEGRATING NAS FOR HUMAN POSE ESTIMATION

International Conference on Emerging Methods in Computer Science and Network (ICEMCSN 2024)

Publisher: Elsevier

Jan 2025