

KESHAV MAVI

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Profile Summary

Aspiring Software Development Engineer with a strong foundation in problem-solving, data structures, and algorithms. Proficient in Python and C++, with a keen interest in backend development and building efficient applications. Enthusiastic about AI-driven solutions, and writing clean, optimized code. Eager to learn and contribute to innovative projects.

Education

Indian Institute of Information Technology (IIITDM), Jabalpur <i>Master of Technology in Computer Science And Engineering</i>	2024 - 2026 <i>CPI:- 8.0</i>
Gautam Buddha University (GBU), Greater Noida <i>Bachelor of Technology in Computer Science And Engineering</i>	2019 - 2023 <i>CPI:- 8.36</i>
St Joseph's School, Greater Noida <i>ISC Board, XII</i>	2019 <i>72.80%</i>

Technical Skills

Languages: C/C++, Java, Python

Libraries/Tools: NumPy, Pandas, Matplotlib, PyTorch, Google Colab, VS Code

Concepts: Machine Learning, Deep Learning, Data Structure and Algorithms,

Soft Skills: Communication, Teamwork, Problem-Solving, Adaptability

Projects

Textile Fabric Classification using Deep Learning Python, PyTorch, Transformers

- Designed and implemented a deep learning system for automated textile fabric classification using OCT images, achieving 90%+ accuracy.
- Applied advanced image preprocessing techniques, including CLAHE contrast enhancement, grayscale conversion, and sharpening, to enhance the quality of OCT images. Utilized data augmentation (rotation, flipping, zooming) to improve model robustness and prevent overfitting.
- Evaluated model performance using precision, recall, F1-score, and confusion matrices, providing actionable insights for further improvements

Crop Classification from UAV Images

- Developed and implemented AMA-Net, a two-stage deep network combining an Adaptive Masking (AM) module and a Fair Attention (FA) module
- Adaptive Masking (AM) module was used to suppress complex background noise and a Fair Attention (FA) module to enhance fine-grained discrimination between visually similar crop categories
- Achieved 96.65% accuracy, 96.65% precision, 97.13% recall, and 96.72% F1-score, outperforming state-of-the-art CNN baselines (ResNet, DenseNet, EfficientNet, VGG, GhostNet) on the publicly available Agriculture Crop dataset

Internship

GLocalLogic

August 2022 - October 2022

- * Gained comprehensive knowledge of Android Development, including UI/UX design, API integration, ViewModel, LiveData, and RecyclerView.
- * Developed a News Feed App as part of a 2-month project, fetching real-time news data using the News API and displaying it in a structured format.
- * Designed and implemented the frontend using XML, focusing on a user-friendly and responsive interface. Ensured efficient performance, error handling, and smooth navigation within the app.

Positions of Responsibility

Teaching Assistant

2024-2025

Data Science Lab - Mentored 100+ students in Data Science

Core Committee Member, GBU Annual fest

2022

Gautam Buddha University

House Captain

2016 - 2019

St. Joseph's School, Greater Noida