

Keshav Agrawal

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Education

Manipal Institute of Technology

BTech, Computer Science and Engineering with Specialization in AI & ML

Aug 2022 – Aug 2026

Manipal, Karnataka

- **Relevant Coursework:** : Machine Learning, Deep Learning, Neural Networks, Computer Vision, Database (SQL)

Experience

Adani Green Energy Ltd.

May 2025 – Jul 2025

Software Development Intern

On-Site

- Engineered a full-stack weather portal using Django and REST APIs to display 20+ real-time meteorological metrics, improving data analysis turnaround time for the team by 40%.
- Automated the extraction and consolidation of data from 100+ PDF documents monthly, reducing manual processing time by 95% and eliminating data entry errors.

OnePlus

Sep 2023 – Present

OS and Product Tester

Remote

- Analyzed performance data and user feedback from 50+ software updates to identify critical issue patterns, contributing to a 90% resolution rate.
- Enhanced prototype earbud reliability by 15% through rigorous hands-on testing protocols, directly improving user satisfaction scores.

Projects

Crop Yield Prediction using Machine Learning | Python, Scikit-learn, Random Forest, Gradient Boosting

- Developed and implemented a predictive model using Random Forest and Gradient Boosting to forecast crop yields from agricultural datasets. Achieved over 90% accuracy by engineering key characteristics related to weather patterns and soil type.

Smart Music Genre Classification using Deep Learning | Python, TensorFlow/Keras, Librosa, CNNs

- Architected and trained a Convolutional Neural Network (CNN) in TensorFlow/Keras, achieving 97% accuracy in classifying 10 music genres from the GTZAN dataset. Designed the data pipeline using Librosa to convert audio signals into Mel spectrograms, enabling image-based feature extraction.

Content-Based Image Retrieval | OpenCV, Python, HTML, CSS, Flask, Django

- Engineered a content-based image retrieval system for a dataset of 8,000+ images, implementing and comparing SIFT and ORB feature detectors. Flask-based API that achieved retrieval accuracy of 92% while optimizing computation time by 20%.

Gym Management System | HTML, CSS, JavaScript, SQL, Node.js

- Built a full-stack system that improved gym operational efficiency by 25% by automating scheduling and billing, reducing administrative errors by 15%.

Technical Skills

Languages: C, C++, Python, JavaScript, SQL, HTML, CSS

Libraries & Frameworks: React.js, Node.js, Django, Flask, Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV

Tools: Git/GitHub, Hadoop, Kafka, Apache Spark, HBase, REST APIs

Achievements

Top 6 in McKinsey Case Championship - TechQuest

- Achieved National Top 6 Finalist status out of 500+ competing teams by designing an innovative tech solution for a complex business problem.

Top 6 in DevSprint Hackathon

- Developed a news-reading website for elderly users, increasing engagement by 60%.
- Designed personalized content recommendations to improve user experience.