

# Keshav Agrawal

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## Education

**Manipal Institute of Technology** Aug 2022 - Aug 2026  
*BTech, Computer Science and Engineering with Specialization in Artificial Intelligence & Machine Learning*   *Manipal, Karnataka*  
• **Relevant Coursework:** : Data Structures & Algorithms, OOP, Database Systems, OS, AI, ML, Big Data Analytics, Neural Networks, Computer Vision

## Experience

**OnePlus** Sep 2023 - Present  
*OS and Product Tester* Remote  
• Tested 50+ software updates for OnePlus devices, identifying and resolving 90% of critical issues.  
• Conducted hands-on testing of prototype earbuds, enhancing product reliability and user satisfaction.

**Photography Club Manipal** Oct 2022 - Present  
*HR Head*  
• Managed HR operations, overseeing the recruitment of 150+ members and resolving 10+ grievances to improve club functioning.  
• Mentored and guided 14 junior HR handlers to enhance club management and coordination.  
• Managed a 3-day event with 4000+ footfall, ensuring seamless execution and participant engagement.

## Projects

**Content-Based Image Retrieval** | *OpenCV, Python, HTML, CSS, Flask, Django*  
• Engineered an image retrieval system using SIFT & ORB algorithms for 8,000+ images.  
• Achieved 92% retrieval accuracy, reducing computation time by 20%, optimizing large-scale image searches.

**Crop Yield Prediction Using Machine Learning** | *Python, Scikit-learn, Random Forest, Gradient Boosting*  
• Developed a machine learning model predicting crop yields based on rainfall, fertilizer usage, and pesticide application.  
• Implemented Random Forest & Gradient Boosting Regressors, achieving 90%+ accuracy using real-world agricultural datasets.

**Stock Market Analysis Using Big Data** | *TensorFlow, Kafka, Hadoop, PySpark, jQuery, Bootstrap*  
• Designed a SENSEX 30 stock market prediction system, analyzing 10M+ stock price records using Hadoop, Kafka, Apache Spark, and HBase.  
• Led a 6-member team, overseeing Hadoop & HBase setup, while implementing a real-time stock trend visualization UI, improving financial analysis efficiency by 30%.

**Gym Management System** | *HTML, CSS, JavaScript, SQL, Node.js*  
• Built a system that improved gym operations & member satisfaction by 25% by automating administrative tasks.  
• Automated scheduling, billing, and reporting, reducing operational errors by 15% and increasing efficiency.

## Technical Skills

**Programming:** C, C++, Python, JavaScript, SQL  
**Libraries & Frameworks:** React.js, Node.js, Express.js, JavaFX, Bootstrap, Flask, Django  
**Machine Learning & Data Science:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV  
**Tools:** Git/GitHub, Hadoop, Kafka, Apache Spark, HBase

## Achievements

**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.