

Ravi Kumar

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Professional Summary

Highly motivated B.Tech Computer Science and Engineering student with a specialization in Artificial Intelligence and Machine Learning. Proficient in Python and Java with a strong understanding of data structures and algorithm design. Experienced in building AI-powered applications using Scikit-learn, Pandas, and NumPy, and in developing deep learning solutions involving CNNs, OpenCV, and object detection techniques. Passionate about applying cutting-edge AI/ML technologies to solve real-world problems through efficient and scalable software solutions.

Education

Kalasalingam Academy of Research and Education Bachelor of Technology in Computer Science and Engineering (AI & ML) CGPA: 7.95	<i>2022 – Present</i>
BSEB – Intermediate (12th Grade) Percentage: 76.2%	<i>2020 – 2022</i>
BSEB – Secondary Education (10th Grade) Percentage: 78%	<i>2019 – 2020</i>

Technical Skills

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| <ul style="list-style-type: none">• Programming: Python, Java• Machine Learning: Scikit-learn, Pandas, NumPy, Matplotlib | <ul style="list-style-type: none">• Deep Learning: OpenCV, Image Processing, Object Detection, CNN• Concepts: Data Structures |
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Projects

Facial Recognition Attendance System <ul style="list-style-type: none">• Built a Python and OpenCV-based system to automate student attendance using face detection and recognition.• Reduced manual attendance effort by 80% and improved reliability with real-time processing.	<i>2022</i>
IoT-Based Smart Door Lock System <ul style="list-style-type: none">• Developed a facial authentication door lock using Raspberry Pi and Python for secure remote access.• Enabled live alerts and remote lock/unlock capability through a custom web interface.	<i>2023</i>
Spam Mail Classifier <ul style="list-style-type: none">• Used NLP and supervised learning algorithms to classify emails as spam or legitimate.• Achieved 95%+ accuracy using techniques like TF-IDF and logistic regression.	<i>2023</i>
Smart Surveillance System using YOLOv8 <ul style="list-style-type: none">• Created a real-time object detection system to identify weapons and trigger alerts using YOLO with 85% accuracy.• Improved response time for threat detection with automated notifications and custom-trained models.	<i>2024</i>

Certifications

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| • BEC English Certification | <i>2023</i> |
| • Computer Vision in Microsoft Azure – Coursera | <i>2024</i> |
| • Oracle Cloud Infrastructure 2023 Certified Architect Associate – Oracle | <i>2024</i> |
| • Design and Analysis of Algorithms – CodeChef | <i>2024</i> |
| • Database Management System – CodeChef | <i>2024</i> |