

# YUVARAJ PANDIT RATHOD

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Hubli, Karnataka, India

## Summary

Detail-oriented Computer Science graduate skilled in Python, Java, and full-stack development. Experienced in building scalable applications and using modern tools to solve complex problems. A strong collaborator, passionate about delivering innovative technology solutions with measurable impact.

## Skills

**Programming Languages:** Python, Java, JavaScript

**Web Development:** HTML, CSS, React.js, Node.js, Express.js

**Databases:** MySQL, MongoDB

**DevOps:** Docker, Kubernetes, GitHub

**Computer Science Fundamentals:** DSA, Operating Systems, Computer Networks, DBMS

**Tools:** VSCode, Postman, Figma, Jira

**Soft Skills:** Leadership, Teamwork, Problem-Solving, Time Management

## Experience

**Athreya Technologies Pvt. Ltd**

**Feb 2023 – Jun 2023**

*Intern – Full Stack Development*

*Hubli, Karnataka*

- Developed an E-Document Verification System using JSP and PHP, improving verification accuracy and reducing manual processing time by 60%.
- Collaborated with cross-functional teams to deploy the system, enabling the processing of over 100 documents per hour during testing.

## Projects

### Cyber Threat Detection and Prevention (Hybrid AI-ML Approach)

- **Tech Stack:** Python, Scikit-learn, TensorFlow, Pandas, XGBoost, CNN-LSTM, Autoencoder, Isolation Forest
- Built an ensemble combining Autoencoder and Isolation Forest models (89% accuracy) with XGBoost (96%) and CNN-LSTM (98%) for enhanced cyber threat detection.
- Created an interactive dashboard to visualize attack trends, counts, and logs for real-time monitoring.
- Trained and evaluated models on the CICIDS 2018 dataset containing labeled network traffic data.

### Real-Time Object Detection using YOLOv11

- **Tech Stack:** Python, PyTorch, OpenCV, YOLOv11, Flask
- Developed a Flask-based dashboard for real-time video (60 FPS), image uploads, and live streaming with low latency.
- Fine-tuned YOLOv11 for high-precision detection across varied scenarios and object types.

### Hospital Readmission Risk Prediction (Ensemble Learning)

- **Tech Stack:** Python, XGBoost, CatBoost, MLP Classifier, NumPy, Pandas, Matplotlib
- Created an ensemble of CatBoost, XGBoost, and MLP classifiers, achieving 82% accuracy on 250,000+ patient records.
- Performed feature engineering and exploratory data analysis to improve precision and recall, aiding in reducing predicted readmissions.

### Student Community Blogging Platform (MERN Stack)

- **Tech Stack:** MongoDB, Express.js, React.js, Node.js, Bootstrap, JWT Authentication, Selenium
- Designed and implemented a responsive blogging platform with secure authentication and real-time collaboration tools.
- Used Selenium for automated testing, ensuring reliability and a smooth user experience.

### E-Document Verification System

- **Tech Stack:** JSP, PHP, MySQL, HTML, CSS, WAMP Server
- Built a multi-role verification system supporting four distinct user roles for document attestation workflow.
- Streamlined user interactions and reduced manual verification time by 60%, enabling processing of 100+ documents per hour.

Awards & Certifications

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- **Internship Certificate** – Athreya Technologies Pvt. Ltd., Full Stack Development
- **Research Paper Presentation and Publication** – *Hospital Readmission Risk Prediction using Ensemble Learning*, 3rd International Conference on Futuristic Technologies (INCOFT 2025), Pune, India

Education

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<b>KLE Technological University, Hubli</b> <i>Bachelor of Engineering in Computer Science</i>	<b>Present</b> <i>CGPA: 7.75</i>
<b>JSS K H Kabbur Institute of Engineering, Dharwad</b> <i>Diploma in Computer Science and Engineering</i>	<b>2020 – 2023</b> <i>CGPA: 9.03</i>
<b>Om English Medium High School, Dharwad</b>	<b>2009 – 2019</b> <i>Percentage: 76.64%</i>

Hobbies

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- Hackathons & Coding Competitions
- Blogging
- UI/UX Designing (Figma)
- Problem-Solving Puzzles
- Sports (Cricket, Kabaddi)