

# LATHA B

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<https://github.com/Lathabhyrava/latha-portfolio> | Mysore

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## SUMMARY

Motivated MCA graduate skilled in Java, Python, and web application development, with knowledge in backend. Proficient in deep learning research using PyTorch and OpenCV with Flask-based deployment. Passionate about building scalable, efficient, and impactful applications

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## SKILLS

### Web Development

- Proficient in Java, Python (Flask Framework) for web application development.
- Experience in Frontend Design using HTML, CSS, XML.
- Backend development with Java Servlets, JDBC, and SQL Database Integration
- Web deployment and maintenance using Flask and local servers.

### Android Development

- Application development using Java and XML in Android Studio.
- Proficient in UI design, authentication, and database integration.
- Cross-platform mobile app development using Flutter with strong proficiency in Dart.

- Hands-on experience in UI/UX design, REST API creation and integration, and push notification implementation.

### AI & Deep Learning

- Research experience in Scene Text Detection and OCR (Optical Character Recognition) using U-Net, EAST, PAN.
- Flask-based Deep Learning model deployment and Gradio UI integration.
- Experience with Google Colab, Kaggle, and Jupyter Notebook for experimentation and visualization.

### Tools & Platforms

- VS Code, Android Studio, Jupiter Notebook, Google Colab, Kaggle.
- Canva and Adobe Illustrator for creative design.

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## EDUCATION

JSS Science and Technology University, Mysuru

**Master of Computer Applications (MCA)**

CGPA: 8.3 | 2023 – 2025

Seshadripuram Degree College

**Bachelor's of Computer Applications(BCA)**

CGPA: 8.38 | 2020 – 2023

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## CERTIFICATIONS

- JDBC & JSP Servlets – **Udemy**
- Deep Learning Mastery with TensorFlow and Keras – **Udemy**
- Government Certification - **Railway Vikas Yojan**
- Placement Training Certification – **SDC**

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## PROJECTS

### 1. Scene Text Detection and Text-to-Audio Conversion (Deep Learning Project)

Developed an end-to-end text detection and recognition pipeline using the U-Net model, integrated with Flask for deployment. The system detects text in real-world images, recognizes it using EasyOCR, and converts it into audio. Also explored algorithms like EAST, PAN, Detectron and PixelLink for performance comparison. The web app provides features for image upload, detected text visualization, and audio playback.

### 2. Hostel Management System (Android + Web Application)

Developed a digital hostel management system featuring three user roles – Admin, Student, and Service Provider. The system enables student registration management, fee payments, leave requests, feedback, and service handling, with using firebase backend, XML and Java frontend, and integrated email notifications for seamless communication.

### **3. E-Learning and Medical Assistance for Physically Impaired People (Web Application)**

A web platform to connect physically challenged users with online tutors and nearby doctors for personalized assistance.

Developed using Python Flask for backend, AngularJS for frontend, and SQL for database management.

### **4. Datos Infotech Application (Live Project)**

Developed and contributed to the Datos Infotech mobile application during my internship, actively involved in real-time development, testing, and feature implementation. The application was successfully deployed and went live during my internship period. Gained hands-on experience in application workflows, API integration, and production-level development.

### **5. BondX Labour Application**

Worked on the BondX Labour App, designed to manage labour-related operations. Implemented features to support labour data handling and workflow management. Contributed to improving usability and functionality of the application.

### **6. DSIP-C Collector Application**

Developed the DSIP-C Collector App used for collecting payments from customers. Implemented modules for customer data management and payment collection tracking. Ensured smooth data flow and reliable handling of transaction-related information.

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## **EXPERIENCE**

### **Datos Infotech Private Limited**

#### **Flutter Developer Intern**

[Working]

- Developed an Android application using Flutter with Dart, contributing end-to-end implementation.
  - Designed and completed the entire UI of one application module independently.
  - Created REST APIs for login, registration, and image fetching, and successfully integrated them into the mobile app.
  - Implemented API integration for real-time data handling and smooth user experience.
  - Integrated push notifications for timely user alerts and updates.
  - Successfully completed and delivered the application within 28 days, meeting project requirements and deadlines.
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