LEKHAN S

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SUMMARY

Aspiring software developer with strong skills in C, Java, and Python, with a keen interest in machine learning, data analytics, and AI. Maintains a 8.5 GPA with no backlogs. Passionate about building efficient, real-world tech solutions.

EDUCATION

Bachelor of Engineering(B.E.) in Computer Science and Engineering (AI&ML)
JSS Academy of Technical Education, Bengaluru
Expected Graduation: July 2026
GPA:**8.5**

SKILLS

Programming : C (Basics), HTML, Python
Tools: VS Code
Databases: SQL (Basics)
Project Management: Agile, Scrum
Data Visualization: Power BI, Tableau
Office Tools: Excel, Power Point, Word.

PROJECTS

1. **TensorFlow for AI Model Training**
- Built and optimized deep learning models using TensorFlow with ~90% proficiency.
- Designed CNN-based image classifiers with a 15% accuracy improvement.
- Managed data loading, preprocessing, and hyperparameter tuning.
- Utilized GPU acceleration to enhance training performance.

2. **Real-Time Text Recognition Using OCR**
- Developed real-time OCR using Tesseract and OpenCV with 90% accuracy.
- Applied grayscale conversion, thresholding, and noise filtering to improve results by 85%.

3. **Predictive Analysis Using Kaggle Datasets**
- Conducted predictive analysis with Python, Pandas, Scikit-learn, and Matplotlib.
- Built models for house price forecasting, loan approval prediction, and COVID-19 trend analysis with 80–90% accuracy.
- Applied feature selection and model evaluation using MSE and R^2 metrics.

4. **Human Detection and Automated Pedestrian Counting**
- Built a pedestrian counting system using YOLOv8 and OpenCV with 95% detection accuracy.
- Achieved 90% frame processing efficiency in real-time video streams.
- Enhanced object detection using image optimization techniques.
- Explored AI applications in traffic monitoring and crowd analytics.

EXPERIENCE

Intern, Bharat Electronics Ltd(BEL) **Feb'25 - Mar'25**

- Developed machine learning models for live human detection using TensorFlow, enhancing real-time surveillance capabilities.
- Built a real-time text recognition system using Tesseract OCR and OpenCV, achieving 90% accuracy on webcam streams and static images.
- Designed and implemented a real-time pedestrian counting system using YOLOv8 and OpenCV with 95% detection accuracy.
- Contributed to intelligent automation and smart surveillance solutions for security and monitoring.

CERTIFICATIONS

1. Software Engineering Job Simulation **- Electronic Arts**
2. Computer Network and Internet Security **- Infosys SpringBoard**
3. Introduction to Artificial Intelligence **- SimpliLearn**
4. JSS4SoC Hackathon **- GeeksForGeeks**

HOBBIES

- Reading fiction and mythological novels
- Trekking and exploring nature trails
- Traveling and exploring new cities and cultures