AKSHAY SHARMA T.R

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Final-year Java Developer passionate about building scalable software solutions. Strong foundation in Java, Python, and full-stack development, with hands-on experience in machine learning, web development, and problem-solving. Proven ability to develop high-accuracy models, optimize system performance, and collaborate in fast-paced environments. Seeking an entry-level software development role to contribute technical expertise and drive innovation.

EDUCATION

Course: BTech CSE, 8.53 CGPA   2022-2025

VTU University, Karnataka

Intermediate, 92%   2019-2021

Vidyanikethan PU College, Tumkur

PROFESSIONAL EXPERIENCE

Machine Learning Intern | Basal Analytics, Bangalore   Sept 2024 – Dec 2024

- Engineered a deep learning model using ResNet, increasing fruit and vegetable freshness prediction accuracy 97% and reducing validation loss to 0.4.
- Designed & deployed a real-time product recognition system, utilizing computer vision and ML algorithms, improving classification accuracy by 30%.
- Developed & integrated machine learning models into a full-stack web application (Flask, SQLite3), enabling automated classification, real-time inventory tracking, and 30% faster product recognition.

PROJECTS

Memory Game – Flipping Cards (Java)

- Developed a memory-based card matching game using Java Swing, featuring Pokémon-themed energy cards.
- Implemented game logic with a countdown timer, error tracking, and win/loss conditions.
- Designed an interactive UI with a scalable grid layout and smooth card-flipping animations.
- Enabled game restart functionality and optimized performance for a seamless user experience.

Deep Learning for Freshness & Grocery Detection (Python)

- Built and trained ResNet-101 to classify fresh and rotten fruits/vegetables with 98% validation accuracy.
- Developed another ResNet-based model for grocery product detection, achieving 84% validation accuracy.
- Designed and optimized deep learning pipelines for real-world freshness classification and grocery recognition tasks.

SKILLS & OTHER

Java	JavaScript	ReactJS	SQL
Python	Django	MongoDB	DSA

CERTIFICATIONS

- **Project Management -Coursera**
- **Junior Software Developer - Coursera**
- **Google Business Intelligence - Coursera**
- **Google Cybersecurity - Coursera**
- **Git - Simplilearn**