Abhishek B S

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Professional Summary

MCA graduate with published research in deep learning for disaster detection (98.44% accuracy with EfficientNet-B0). Built production-ready ML models and full-stack applications using Python, TensorFlow, and React.js. Proven track record in computer vision, CNN architectures, and multi-agent AI systems.

Experience

Frontend Development Intern | Dyashin Technosoft Pvt Ltd, Bangalore Dec 2024 - Jan 2025

- Created an Uber Clone App with React.js, designing 5+ scalable and responsive interfaces (ride booking, fare estimation, driver tracking, and payments) that enhanced user experience.
- Improved frontend performance by 25% with efficient JavaScript solutions and state management for better navigation and user satisfaction.
- Integrated REST APIs for real-time data fetching and implemented responsive design patterns for seamless cross-device compatibility.

Machine Learning Intern | Aptra Technologies Pvt Ltd, Mangalore Aug 2023 - Oct 2023

- Developed CNN models for image analysis and emotion detection, improving accuracy in emotion recognition tasks.
- Implemented deep learning pipelines for emotion recognition, optimizing model precision and inference time.
- Preprocessed and augmented datasets using Python libraries, enhancing model generalization and reducing overfitting.

Projects

Trip-Craft Trip-craft

- Engineered intelligent itinerary planner using LangGraph multi-agent framework and Groq's Llama 3.3
- Created Gradio web interface enabling users to generate customized day-trip plans with timing and activity recommendations

Data Professional Survey Data-Professional-Survey

- Created an interactive Power BI dashboard analyzing survey responses from 1,000+ data professionals across job roles, salary trends, tool preferences, and geographic distributions.
- Identified key industry insights and visualized compensation patterns, enabling data-driven career decision-making.

Aerial Disaster Detection Aerial-Disaster

- Developed a CNN-based disaster recognition system using satellite imagery to classify earthquake, fire, flood, and normal scenes with ResNet18, MobileNetV2, EfficientNet-B0, and CustomCNN architectures.
- Achieved 98.44% validation accuracy with EfficientNet-B0, benchmarked using confusion matrix, F1-score, ROC-AUC, and real-time CPU inference metrics.

Technologies

Languages: Python, SQL, JavaScript, HTML, CSS

ML/AI Tools: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, LangChain

Frameworks: CNN (ResNet, EfficientNet, MobileNetV2), Gradio, FastAPI, Pydantic

Data Tools: Power BI, Jupyter Notebook, Google Colab

DevOps: Docker, Google Cloud Platform, Git, Kaggle

Certifications

- Generative AI Mastermind - 0utskill
- Docker: A project-based approach to learning - Udemy
- Machine Learning A–Z - Udemy
- Google Cloud Fundamentals: Core Infrastructure - Coursera

Publications / Conference

"Satellite-Based Disaster Detection Using CNN Ensembles and Model Comparison"
3rd International Conference – DRISHTI 2025: A New Era in Management and Technology
Proceedings ISBN: 978-93-343-5348-8

- Developed a deep learning-based disaster recognition framework using CNN architectures.
- Identified EfficientNet-B0 as the best-performing model, demonstrating the potential of lightweight CNNs for real-time, scalable disaster detection in drones and emergency response systems.

Education

Master of Computer Applications | Mangalore Institute of Technology and Engineering Nov 2025
Specialization: Machine Learning

Bachelor of Computer Applications | Vivekananda College of Arts, Science & Commerce Nov 2023