M Karthik

Machine Learning Engineer and Front-End Developer

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SUMMARY

I am a skilled Computer Science student with a strong focus on Artificial Intelligence and Machine Learning. I have hands-on experience in front-end development using React, as well as in developing robust machine learning applications. Throughout my academic journey, I have excelled in competitive programming, achieving high rankings in hackathons. My commitment to continuous learning and my ability to work collaboratively in team environments have been key to my success in various projects

SKILLS

Bootstrap   **C/C++**   **CSV**   **Data Structures**   **Docker**   **Git**

HTML   **Java**   **JavaScript**   **MongoDB**   **Numpy**   **OOP**

Pandas   **Python**   **PyTorch**   **Random Forest**   **React**   **REST**

Scikit-Learn   **TensorFlow**   **RESTful API**   **Node.js**

PROJECTS

Transit Pro
01/2023 - 10/2023   Bengaluru
Bus Booking Management System
- Engineered a robust CLI-based booking system using Java, implementing core OOP principles
- Designed efficient data persistence layer using MongoDB and CSV storage for backup
- Implemented optimized data structures reducing query response time by 60%
- Created user-friendly terminal interface with real-time booking status updates

AI Image Cartoonization System
12/2022 - 04/2023   Bengaluru
Image Cartoonization System using GAN
- Developed an innovative image transformation system using cycle-GAN architecture
- Trained the model on CelebA dataset with 1000+ images, achieving 90% style retention
- Implemented custom data preprocessing pipeline for enhanced training efficiency

Artistic Style Transfer Engine
12/2022 - 04/2023   Bengaluru
Artistic Style Transfer Engine using VGG-Net
- Developed neural style transfer system using VGG-Net architecture
- Engineered feature extraction pipeline utilizing deep convolutional layers
- Implemented custom loss functions for style and content preservation
- Achieved high-quality artistic transformations with 85% style accuracy

XAI-Enhanced Face Recognition System
01/2023 - 12/2023   Bengaluru
Face Recognition System with Explainable AI
- Built interpretable face recognition system with feature visualization capability
- Implemented custom model using TensorFlow and SparseCategoricalLoss
- Developed heat-map generation system for feature importance visualization
- Achieved 92% recognition accuracy with explainable AI components

EXPERIENCE

Front-End Developer
Freelance Project
07/2024 - 10/2024   Bengaluru
Freelance web development project
- Architected and developed responsive business website (www.sriveluenterprises.com) using React and Material-UI
- Implemented lazy loading and code splitting, improving initial page load performance
- Created modular component library of 10+ reusable elements for consistent UI/UX
- Designed mobile-responsive layouts ensuring seamless experience across all devices
- Deployed and maintained website with 99% uptime

Machine Learning Engineer
Technocolabs Pvt Ltd
02/2024 - 06/2024   Bengaluru
Tech company specialized in machine learning solutions
- Developed end-to-end ML pipeline combining logistic regression and random forest models
- Built RESTful API using FastAPI for model deployment and prediction serving
- Created interactive React dashboard for real-time model monitoring and visualization
- Optimized model training pipeline through efficient data preprocessing and parallel computing
- Implemented error handling and logging system for improved model reliability

EDUCATION

Bachelor of Technology in Computer Science
Indian Institute of Information Technology
08/2020 - 05/2024   Sricity, Chittoor

Intermediate
Narayana Junior College
06/2018 - 05/2020   Narasimhakonda, Nellore

Secondary Education
Jawahar Navodaya Vidyalaya
01/2018 - 12/2018   Valasapalle, Chittoor

KEY ACHIEVEMENTS

🎖 **Smart India Hackathon**

Advanced to Smart India Hackathon finals, demonstrating exceptional problem-solving and teamwork

⭐ **Abhisarga Cultural Festival Organization**

Led organization committee for Abhisarga cultural festival, managing multiple event teams