MANIKANDAN M

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https://portfolio-manikandan-m.vercel.app/

OBJECTIVE

A motivated MCA student from Lead College of Management, Palakkad, eager to start a career in the tech industry. Strong foundation in computer science with certifications in Python and Machine Learning. Gained practical experience through projects. Known for being responsible, organized, and quick to learn new technologies.

EDUCATION

Master of Computer Applications (MCA)
Lead College of Management, Palakkad | First Sem CGPA: 8.4 | 2024 - Present

Bachelor of Computer Applications (BCA)
University of Calicut | CGPA: 8.4 | 2021 - 2024

INTERNSHIP EXPERIENCE

Machine Learning Intern
Cognifyz Technologies (Remote) | Mar 2025 – Apr 2025
• Built and optimized predictive models using Python and scikit-learn.
• Executed end-to-end ML workflows: preprocessing, training, evaluation.
• Strengthened teamwork and model tuning skills remotely.

PROJECT EXPERIENCE

Resume Ranking System Based on Job Description
• Developed an intelligent resume ranking system using NLP techniques and a Random Forest Regressor model
• Extracted skills and experience from resumes and compared them with job descriptions to generate relevance scores.
• Streamlined the recruitment process by enabling HR teams to perform data-driven candidate screening

Intelligent Pothole Detection System
• Utilized computer vision and machine learning for real-time pothole detection using webcam feeds.
• Employed edge detection and contour analysis techniques to identify pothole regions accurately.
• Enabled efficient and cost-effective road monitoring and reporting through integration with a cloud-based system for government agencies.

Fake News Detection System
• Developed a machine learning model using NLP and text vectorization techniques to classify news articles as fake or real.
• Applied tokenization, stopword removal, and TF-IDF vectorization to preprocess textual data.
• Achieved high classification accuracy by effectively analyzing large-scale news datasets and tuning model parameters.

AI-based Fire Detection System

• Designed and implemented a fire detection system using deep learning (Keras, TensorFlow) and image processing (OpenCV) in Python.
• Trained a Convolutional Neural Network (CNN) on custom fire and no-fire datasets, enhancing accuracy compared to traditional threshold-based methods.
• Improved fire detection response time, making the system suitable for real-time surveillance scenarios.

CERTIFICATIONS

• Python Basics – Certificate from Zanx (Jun 2023)
• Python Programming – Certificate from Kaggle (Dec 2022)
• Intro to Machine Learning – Certificate from Kaggle (Dec 2022)
• Pandas – Certificate from Kaggle (Dec 2022)

ACHIEVEMENTS

• Actively volunteered with NSS during Higher Secondary (Plus Two).
• Achieved College Topper position in the BCA program, demonstrating strong academic performance and dedication.

TECHNICAL & SOFT SKILLS

• Programming Languages **–** Python, JavaScript, HTML, CSS
• Web Development **–** React.js, HTML5, CSS3, JavaScript
• Machine Learning & Deep Learning **–** Scikit-learn, TensorFlow, OpenCV, Machine Learning Algorithms
• Libraries & Tools **–** OpenCV, Matplotlib, NumPy, Pandas, Jupyter Notebook, GitHub
• Soft Skills **–** Communication, Fast Learner, Time Management, Adaptability, Critical Thinking, Collaboration, Flexibility

LANGUAGES

Malayalam (Native)
English (Intermediate)

REFERENCES

Ajay Japamani – Placement Officer
Lead College of Management
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Palanikumar G – Mentor and Assistant Professor
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DECLARATION

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.