MANISH P

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Portfolio   —   LinkedIn   —   GitHub   —   Medium

Professional Summary

Junior AI Engineer with hands-on experience in developing and deploying machine learning models, real-time computer vision systems, and generative AI tools. Skilled in Python, OpenCV, and PyTorch, with a proven ability to build end-to-end AI solutions from data preprocessing to model optimization. Passionate about leveraging AI to create innovative and impactful technology.

Education

Kangeyam Institute Of Technology   *Oct 2022 – Present*
Bachelor of Technology in AI and Data Science   *CGPA: 8.29 (upto 6th sem)*

SR Matriculation Higher Secondary School   *HSC: 80%*

Kongu Matriculation School   *SSLC: 60%*

Technical Skills

Programming Languages: Python, Java, SQL

Tools & Technologies: KNIME, Power BI, Git, Amazon AWS, PyCharm, VS Code, Streamlit

AI/ML Frameworks: PyTorch, TensorFlow, Scikit-learn, OpenCV, MediaPipe

Core Competencies: Machine Learning, Deep Learning, NLP, Computer Vision, Generative AI

Soft Skills: Problem Solving, Team Collaboration, Creativity, Project Management

Experience

Beetalogic Software Solutions   *June 2025 – Present*
AI Developer (ML & DL)

- Developed and deployed AI-powered solutions, including machine learning and deep learning models for client projects.

- Built real-time computer vision systems using OpenCV and MediaPipe for gesture and face tracking applications.

- Routinely enhanced model performance by fine-tuning hyperparameters, leading to significant accuracy boosts (e.g., improving a key model from 92% to **95.5%**).

Dynaspede Integrated Systems   *April – May 2025*
Automation and Robotics Intern

- Designed and implemented an automated vehicle system for industrial robotics training, focusing on real-time control and sensor integration.

- Gained hands-on experience with robotics, control systems, and automation software.

Global Knowledge Technologies   *Aug – Sep 2024*
AI Tools Intern – KNIME

- Built end-to-end data workflows and machine learning pipelines using KNIME for automation use cases.

- Automated data preprocessing, feature engineering, and predictive modeling tasks.

Certifications

- Prompt Engineering in ChatGPT – Microsoft

- Career Essentials in Generative AI – Microsoft + LinkedIn

- TCS iON Career Edge – Young Professional Program, TCS

- UiPath Automation Explorer – UiPath
- Artificial Intelligence Tool – KNIME, Global Knowledge

Industry Exposure

- Spectrum Technologies Pvt. Ltd., Cochin – AWS Industrial Automation
- Inker Robotics, Thrissur – Robotics R&D Quality Control
- Quaroo Technologies, Coimbatore – AR/VR Generative AI
- Beetalogic Software Solutions, Coimbatore – Artificial Intelligence

Leadership & Extracurricular Roles

- **Student Coordinator – College Symposium:** Managed events, coordinated participants, and facilitated technical sessions.
- **Secretary – Alumni Cell Club:** Organized alumni interactions, managed club activities, and handled communications.
- **Rotaract Club Member:** Actively participated in organizing and executing community service projects.
- **Department Event Organizer:** Contributed to planning departmental events, workshops, and seminars.

Projects

IntelliWild — Designed an AI-IoT system for wildlife monitoring. Deployed on edge devices, it uses YOLOv5 to detect poachers and injured animals, sending real-time alerts for immediate response. *Technologies: Python, YOLOv5, OpenCV, Edge Deployment.*

AI Ad / Video Generator — Built an AI-powered system to generate promotional videos from text scripts. Automated video creation with dynamic text overlays, background music, and editing. *Technologies: Python, FFMPEG, Generative AI models, Streamlit.*

Hands-Free PC Control — Developed a real-time laptop control system using eye movement and gesture tracking, enabling hands-free operation for improved accessibility. *Technologies: Python, OpenCV, MediaPipe, Haar Cascades.*

Regional Language Sentiment Analysis — Developed and validated novel algorithms (NAMP/DREAM) for sentiment classification in Tamil and Malayalam, achieving high accuracy on custom datasets. *Technologies: Python, NLP, Algorithm Design.*

For a comprehensive list of all projects, please visit my GitHub profile.

Achievements & Recognition

- Invited as **Resource Person** at VET IAS College for a 5-day session on AI and emerging technologies.
- Nominated for College President, recognized for leadership and contribution to student initiatives.
- Maintains a technical blog on Medium, sharing insights on AI, Machine Learning, and other technologies.