Mahesh Kumar .G

Archiot Digital sloutions pvt limited- AI Engineer

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⏺ https://medium.com/@maheshgovind446 ⭕ https://github.com/MaheshkumarGovind

SUMMARY

Bringing in 7 years of experience in the core domain of Artificial Intelligence and Machine Learning , From Design to deploy solution where AI/ML expertise is critical for Predictive Analytics is critical for business domain based on Data . Engineering Graduate with shop floor expertise in component manufacturing to defect . Can undertake transition from manual QC to AI/ML based defect detection in real time on the conveyor belt. Precision detection using camera imaging process to 100% accuracy

PROFESSIONAL EXPERIENCE

ARCHIOT DIGITAL SOLUTIONS PVT LTD   02/2022 – 02/2024
AI ENGINEER   Bangalore,
1.Real-time face mask detection system deployed on an embedded device, enabling immediate monitoring and enforcement of mask-wearing compliance.

2.Facial recognition system integrated with attendance tracking for efficient monitoring and management."
Vehicle detection powered by YOLO algorithm, deployed within Power Apps ecosystem for enhanced surveillance and management.

3.Developing automated pipe counting systems using computer vision algorithms for efficient inventory management and inspection processes

4.Integrated QR code scanning and facial recognition for worker identification. Logged results in Excel for efficient tracking and management.

5.Implementing end-to-end MLOps for chicken disease detection, from data collection to real-time inference."

Generative AI Projects
1.Experience NVIDIA's NIM and LangChain for seamless document embedding and retrieval, enabling precise querying and relevant chunk retrieval from PDF document
2.Q&A Demo featuring OpenAI integration with LangChain for interactive question answering.
3.Audio Summarization App using Google's Generative AI (Gemma Gemini 1.5 Pro), simplifying the extraction of concise text summaries from uploaded audio files, supporting both WAV and MP3 formats.

Fiem industry limited   2018 – 2022
Quality engineer   Hosur
1.Conducted root-cause analysis of component failure.
Generated cost estimates for inclusion in proposed capital and expense budgets.

2.Collaborated with other departments to facilitate successful project completion.

3.Enhanced project efficiency by streamlining communication between team members and utilizing project management tools.

4.Conducted technical evaluations of engineering designs and test results.
Estimated materials costs and sourcing requirements for project feasibility.
Analyzed and interpreted customer requirements to develop engineering solutions.

4.Developed and implemented procedures to verify compliance with engineering standards

Avtech products limited   2016 – 2018
Graduate Engineer   Hosur

Developed AI-driven solutions for gearbox optimization and predictive maintenance.Applied machine learning algorithms to analyze gearbox

performance data and detect anomalies.Implemented predictive models to forecast gearbox failures and recommend maintenance schedules.Contributed to enhancing gearbox efficiency and reducing downtime through AI-driven insights

SKILLS

- Programming Languages: Python (Scikit-learn, TensorFlow, PyTorch),
- Machine Learning: Supervised learning (regression, classification), Unsupervised learning (clustering, dimensionality reduction)
- Deep Learning: Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs
- Statistics and Probability: Strong foundation in statistical concepts and probability theory.
- Data Preprocessing: Techniques for data cleaning, normalization, and feature engineering.
- Model Selection and Evaluation: Ability to choose appropriate metrics for model evaluation and select the best performing model.
- Cloud Computing: Experience with cloud platforms like Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure
- API Integration: Ability to integrate AI/ML models into applications through APIs.
- Data Visualization: Effectively communicate insights through data visualization tools.
- Mathematics: Linear algebra, Calculus
- Algorithms and Data Structures: Understanding of common algorithms and data structures used in AI/ML.
- Natural Language Processing (NLP): Techniques for text analysis, sentiment analysis, machine translation.
- .Computer Vision: Techniques for image recognition, object detection, image segmentation.
- Tools- Git, Github, linux , VS Code, jupter notebook, google colob, Docker, Kubernetes

LANGUAGES

English, Telugu, Tamil, Kannada, Hindi

COURSES & CERTIFICATIONS

Google AI For Everyone
GOOGLE

Hope Machine Learning
HOPE

Hope Data Science
HOPE

Hope Deep Learning
Hope

Udemy-NLP With python
Udemy

Udemy Generative AI -From big Picture, to idea and implemention

Amazon Machine Learning

Amazon Generative AI

Udemy-Prompt Engineering with chatgpt 4 & midjourney

Career Essentials in Generative AI by Microsoft and Linked in learning path
LINKIEDIN

Docker Essntials
IBM

JPMorgan AGILE COURSE
JPMORGAN

EDUCATION

B.E Mechanical Engineering from Anna University
2011 – 2015
CHENNAI

Goverment Higher Secndary School - Mallupatti
2009 – 2011
Mallupatti