Akilarasan Periyasamy

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OBJECTIVE

Passionate software developer with expertise in machine learning, deep learning, and document automation. Seeking an opportunity to apply AI-driven data extraction, NLP, and computer vision skills to develop innovative solutions, improve automation accuracy, and optimize workflows in real-world applications

EXPERIENCE

25-05-2024 - Present

- **Associate Software Engineer (OCR & Documents processing)**
  Behind force tech solutions
  Developed automated OCR solutions for extracting data from civil IDs, vehicle registrations, driving licenses, and medical licenses across multiple Arab countries.
  Increased OCR accuracy by 15% using Google Cloud Vision API, PaddleOCR, and NLP techniques.
  Built and optimized RESTful APIs using Flask, enabling seamless OCR integration with various applications.
  Reduced manual document processing time by 40% through automation pipelines.
  Hands-on experience with GitLab, CI/CD pipelines, and Docker for deployment.

02-03-2023 - 30-04-2024

- **Junior Software Developer - (Data Science & R&D))**
  Infinite Bullseye
  Led a research project on Machine Learning and Deep Learning for geospatial data analysis.
  Processed large-scale geospatial datasets using Python and ArcGIS for predictive analytics.
  Developed ML models for species distribution prediction, aiding in agricultural planning.
  Implemented data visualization techniques to present insights effectively.

EDUCATION

2022

- **B Tech/IT**
  Mahendra Institute of Technology, Mallasamudram, Namakkal (DT)
  75.5

2018

- **12th**
  Ananda Vidyalaya Matric HR.sec school, Rasipuram, Namakkal (DT)
  80.5

SKILLS

Python
80%

Java
60%

SQL
80%

Google cloud vision API, Paddleocr
80%

NLP (ner), Transformers
80%

Flask
80%

Django

60%

Docker

80%

Git / GitHub

80%

PROJECTS

- **OCR**
  Extracted data from civil IDs, vehicle registrations, driving licenses, medical licenses, and police reports with high accuracy.
  Technologies Used: Python, Flask, NLP, OpenCV, TensorFlow, Google Cloud Vision API.
  Achievements:
  Improved OCR accuracy to 95% with advanced preprocessing and NLP techniques.
  Reduced document processing time from 2 minutes to 30 seconds per document through optimization.
- **Crack Detection System**
  Developed a deep learning model (YOLOv5) for detecting cracks in bridges to enhance worker safety.
  Used Roboflow for data annotation and trained the model on real-world datasets.
  Improved detection efficiency by 30% compared to traditional inspection methods.
- **Insect Pest**
  Insect Pest Detection for Agriculture
  Built an Elapid MaxEnt model to predict species occurrence based on environmental factors.
  Used Python, ArcGIS, and ML techniques to analyze species distribution.
  Helped farmers by providing early warnings on pest infestations, reducing crop losses.

INTERESTS

- Studying advanced deep learning and NLP techniques.