AKASH BHADANE

AI/ML DEVELOPER

AI/ML developer with 5 years of experience in Python, FastAPI, Flask, Django, MySQL, Scikit, NLTK, NumPy, Pandas, CNN, RNN, Computer Vision, Natural Language Processing (NLP), LLM/VLM, Rag and MLops. Expertise in handling large Datasets, Data Visualization, and Data Analysis.

WORK EXPERIENCE

AI/ML DEVELOPER
Cloud Stack Group — Jul 2022 – Present

Responsibilities:

- Developed a dual-camera system that captures and recognizes number plates for entry and exit, recording corresponding entry and exit times. Information stored in sqlite database. Created an efficient recognition mechanism that matches exit number plates with entry records, calculating total parking time and generating accurate receipts.
- Designed and implemented an end-to-end sentiment analysis system using MLOps principles: scoped problem objectives, processed and cleaned textual datasets, engineered features, tracked experiments with MLflow, trained scalable NLP models, and deployed with version control and CI/CD automation, ensuring high model reliability and reproducibility.
- Built an AI-powered customer support chatbot using LangChain, Retrieval-Augmented Generation (RAG), and Large Language Models (LLMs), deployed via AWS SageMaker, enabling contextual, dynamic, and knowledge-grounded responses.
- Built and deployed an AI-driven document summarization pipeline on AWS using BERT and T5 for accurate, efficient text abstraction.
- Built a Generative AI pipeline combining SAM (Segment Anything Model) and LLaVA (Large Vision-Language Model) for automated tumor segmentation and AI-assisted clinical report generation from MRI scans.

MACHINE LEARNING DEVELOPER
Stanbuzz India — Aug 2020 – June 2022

Responsibilities:

- Developed and deployed a floor mask segmentation model utilizing Mask R-CNN for accurate floor detection in house images. Leveraged Django framework to deploy the model, enabling real-time floor segmentation.
- Trained multiple image detection models using YOLO object detection system.
- Applied Natural Language Processing (NLP) techniques, including sentiment analysis and named entity recognition, to extract insights from unstructured text data.
- Implemented various machine learning algorithms, including Logistic Regression, Random Forest, and Gradient Boosting, to develop predictive models.
- Designed a GAN-based pipeline to generate high-fidelity synthetic product images, addressing data scarcity.

PERSONAL DETAILS

Navi Mumbai, Maharashtra

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SKILLS

Programming Languages:
Python

Web & API Frameworks:
FastAPI, Flask, Django

Databases:
MySQL, Firebase

Machine Learning:
Regression Algorithms, Classification Algorithms, Clustering Algorithms, Scikit-learn.

Deep Learning & Gen AI:
CNN, RNN, TensorFlow, PyTorch, Natural Language Processing (NLP), NLU, NLG, Large Language Models, HuggingFace, Transformers, Langchain, RAG

Computer Vision:
OpenCV, Pillow

Data Preprocessing & Analysis:
Pandas, NumPy, Matplotlib, Seaborn

EDUCATION

Bachelors in Information Technology
Lovely Professional University — 2017-2020

Diploma in Information Technology
Gujarat Technological University — 2013-2016

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Cloud & MLOps:

AWS, MLflow, Docker, Git,

CI/CD, Model Monitoring,

Model Deployment Pipelines