

AKASH P S

FULL STACK DEVELOPER



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Hard Skill

- React
- MongoDB
- Html5
- Css
- Bootstrap
- JavaScript
- Tailwind Css
- REST APIs
- Python
- Django
- DjangoRestframework
- LLM
- OpenCv
- Pandas
- Numpy
- Seaborn
- Matplotlib
- PostgreSQL
- TensorFlow
- Dvc & Mlflow
- Langchain
- Keras
- Docker
- Git

EXPERIENCE

Data Science Trainee

AlmaBetter | JAN 2023 - JAN 2024

Roles and Responsibilities

- As a Data Science Trainee, I played a pivotal role in various aspects of the data science lifecycle, from data analysis and exploratory data analysis (EDA) to feature extraction and model development based on specific use cases. My primary responsibility was to construct accurate models with a high precision rate, leveraging machine learning and deep learning libraries. Beyond model creation, I demonstrated proficiency in integrating these models into production systems by developing APIs using Django Rest Framework. Additionally, I extended my capabilities to the frontend by building user interfaces with React. This comprehensive involvement across the entire data science pipeline showcased my versatility and commitment to delivering end-to-end solutions.

ABOUT ME

As a proficient developer specializing in full-stack web development and artificial intelligence, I am enthusiastic about constructing scalable distributed systems. I excel in problem-solving, emphasizing the creation of clean and maintainable code. With adaptability across various platforms, I am keen to contribute to a company fostering continuous learning in both full-stack web development and AI. My objective is to deliver meaningful contributions while advancing my education and expertise

PROJECTS

HEALTHY DIET WEB APP [GitHub repo](#)

Developed and implemented a comprehensive wellness platform, empowering users to optimize their health through personalized diet suggestions, a cutting-edge recipe generator, and advanced food image identification technology.

- Machine learning algorithm **K-Means Clustering** powers diet recommendations.
- The recipe generator, crafted with **LLM** models like **Gemini Pro**, enhances user experience
- Deep learning techniques, leveraging a **pre-trained VGG16** model, drive the food image classification feature
- Data acquisition is accomplished through **web scraping**.
- Comprehensive data analysis, including exploratory data analysis (**EDA**) and **feature engineering**, further refines the dataset, followed by **feature transformation**
- The entire project is constructed with a **frontend** in **React.js** and a **backend** in **DjangoRestFramework**, utilizing **RESTful APIs**.
- MLOps** tools like **DVC** and **MLflow** are incorporated for tracking and continuous implementation

Technologies used in this project

- React.js, JavaScript, CSS, Tailwind CSS, PostgreSQL, Python, Django, Django Rest Framework, REST API, LangChain, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib, Keras, TensorFlow, BeautifulSoup, Docker, Mlops, Llm, Gemini Pro

MINI PROJECT

— RETAIL INDUSTRY QA BOT

[GitHub repo](#)

Developed a retail AI chatbot catering to admin personnel, seamlessly linking with databases for swift backstore data retrieval. Authorized users uphold a secure and streamlined experience, obtaining essential details on stock availability, pricing, and profit

- Python,Langchain,Streamlit,PostgreSQL,Llm, Gemini Pro

— FASHION RECOMMENDATION SYSTEM

[GitHub repo](#)

Designed and developed an advanced fashion recommendation system, specializing in predicting and suggesting similar dresses to refine personalized style suggestions.

- TensorFlow, Keras, Deep Learning Algorithms (CNN), Machine Learning Algorithm (Nearest Neighbors), NumPy, Transfer Learning (ResNet)

— OBJECT-DETECTION

[GitHub repo](#)

Designed an advanced waste detection system utilizing object detection to categorize and identify food items. Implemented a feature distinguishing whether identified food is consumed or wasted, contributing significantly to environmental awareness and resource optimization

- OpenCv,YOLOv5,Tensoflow,Pandas,Streamlit ,Notebook

— ECOMMERCE SHOPING SITE

[GitHub repo](#)

Created a streamlined e-commerce platform featuring robust user management, intuitive cart functionality, and seamless order processing

- ReactJs,Html,Css

SOFT SKILLS

- **Flexibility** : My experience with various projects have made me quite flexible to all projects.
- **Work Ethics** : I'm highly productive and ensure deadlines are met.
- **Time Management** : I prioritize tasks to ensure timely delivery.

Educational History

- **MES COLLAGE KUNNUKARA**
Bachelor of Computer Application (**BCA**)
- **GKVHSS ERIYAD**
PLUS TWO (SCIENCE)