AKASH AGALAVE

Pune, India

📞 +91-9359372603 ✉ akashagalaveaaa1@gmail.com in linkedin.com/in/akash-agalave ⚙ github.com/akashagalave

EDUCATION

Dr. D.Y. Patil University   **Dec 2021 - June 2025**
B.Tech - Computer Science and Engineering | CGPA - 8.49   *Pune, India*

Maharashtra Vidyalaya Barshi   **May 2019 – June 2021**
Higher Secondary Education (Science) | Percentage - 86.85%   *Barshi, India*

EXPERIENCE

Euron   **July 2025 - August 2025**
AI Developer Intern   *Remote, India*
- Built an AI-powered **medical chatbot** using LangChain, Pinecone, and OpenAI embeddings.
- Implemented **vector search** for fast and relevant medical information retrieval.
- Developed Flask backend and containerized using **Docker** for scalability.
- Deployed on **AWS EC2** using images from **AWS ECR** with CI/CD automation.

CodersCave   **May 2024 - June 2024**
Data Science Intern   *Remote, India*
- Developed a **Spam Classifier** using **NLTK** and ML, achieving **98.7% accuracy** on test data.
- Streamlined text preprocessing, tokenization, and feature extraction for training pipeline.
- Delivered an **F1-score of 0.96** through precision-tuned model evaluation.

PROJECTS

Real-Time YouTube Sentiment Analysis System | [GitHub]   **Mar 2025 - Apr 2025**
- Engineered a **real-time YouTube sentiment analyzer Chrome extension** using fine-tuned **LightGBM** with **TF-IDF** trigram features.
- Attained **86% accuracy** via **Optuna Bayesian** tuning with expanded search space over 50 trials.
- Resolved **class imbalance** using ADASYN and **LightGBM** class-weight, boosting model performance.
- Deployed scalable **Flask** API on **AWS EC2** with **Docker**, **ECR**, and **CI/CD** via **AWS CodeDeploy** for real-time inference.

Taxi-Demand-Forecasting-System | [GitHub]   **Feb 2025 - Mar 2025**
- Constructed a real-time **Uber demand prediction** system across NYC neighborhoods using **GradientBoostingRegressor**, trained on a large dataset of **34.5 million Uber trips (Jan–Mar 2016)**.
- Reached **93% accuracy** forecasting **15-min** demand using spatiotemporal features for efficiency.
- Built Streamlit app with **Docker** backend enabling real-time demand queries and maps.
- Deployed scalable **AWS EC2** with Load Balancer, **Auto Scaling**, and CI/CD via **CodeDeploy** .

Smart Food Delivery ETA Predictor | [GitHub]   **Nov 2024 - Dec 2024**
- Designed **Food Delivery Time Predictor** with **GradientBoostingRegressor** using features like order type, weather, traffic, and distance.
- Delivered **86% accuracy** predicting delivery time to improve customer satisfaction and operations.
- Created **Streamlit UI** with **Dockerized Flask API** for fast, real-time delivery predictions.
- Hosted on **AWS EC2** with **Load Balancer**, Auto Scaling, and automated **CI/CD** via **CodeDeploy** for scalability.

CERTIFICATIONS

- Data Science Master Certificate - PW Skills
- Advanced SQL for Data Professionals - Codebasics.io
- MLOPS Master Certificate - Euron.one

TECHNICAL SKILLS

Languages: Python, SQL
Technologies: Machine Learning, Deep Learning, NLP, Transformers, Hugging Face
Frameworks & Libraries: PyTorch, Langchain,
Database: SQL,Vector Database
MLOps-Tools: Git, GitHub, DVC, MLflow, Github Actions, DagsHub, Prometheus, Grafana
Deployment & Cloud Services: FastAPI, Docker, AWS