ALOK KUMAR

AI/ML Engineer
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GitHub | Linkedin

EDUCATION

K.P School   W champaran Bihar
Math,science Higher Secondary Certificate   march 2018 - April 2020
Percentage: 70%

IGNOU   Delhi,India
Computer Science Bachelor's   April 2022 - April 2025

EXPERIENCE

SystemTron | Machine Learning Instership   Delhi,India | Nov 2023 - Dec 2023
* Hands-on ML application: Implemented algorithms, assessed model efficacy, and refined data preprocessing techniques for practical insights.
* Collaborative team engagement: Contributed actively, collaborated with peers, and partook in problem-solving sessions.
* Skill advancement: Enhanced Python proficiency, deepened ML library understanding, and refined data analysis abilities.

iNeurone | Machine Learning Internship
* Applied ML algorithms: Implemented various models, assessed their performance, and fine-tuned parameters for optimal results.
* Collaborative teamwork: Contributed to team projects, engaging in problem-solving sessions and discussions.
* Enhanced skills: Strengthened Python proficiency, utilized TensorFlow, and improved data analysis and visualization techniques.

SKILLS

Programming Languages:	python
Libraries/Frameworks:	Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Keras, PyTorch, SciPy, OpenCv, NLTK, Langchain, LLM
Tools / Platforms:	Amazon SageMaker, Microsoft Azure Machine Learning, Google Colab NVIDIA Deep Learning GPU Training System, Google Cloud Natural Language API
Databases:	SQl, Mysql, Mongodb

PROJECTS / OPEN-SOURCE

01. Wine Quality Check | Link   *Python,Machine learning,scikit-learn,Mlflow,Flask,*
This end-to-end machine learning endeavor is more than just about wine; it's a celebration of precision, innovation, and modular coding. Using the ElasticNet algorithm for accurate quality assessment, I've orchestrated a symphony of technology with MLflow for tracking and Flask for seamless hosting.
* End-to-end machine learning project focused on assessing wine quality
Data analysis: Conducted in-depth analysis of breast cancer datasets, exploring various factors and patterns using statistical methods and visualization .
Modular Coding : Embracing a modular coding approach has been pivotal in creating a robust and scalable solution. Each module encapsulates specific functionalities, promoting code clarity, reusability, and ease of maintenance.
ElasticNet Algorithm : Precision meets innovation as ElasticNet elevates the assessment of wine quality.
MLflow for Tracking : MLflow played a crucial role in managing the end-to-end machine learning lifecycle. From experiment tracking and packaging code into reproducible runs to sharing and deploying models, MLflow streamlined the entire process, making iteration and collaboration a breeze.
Flask for Hosting : An interactive experience, bringing the 'Wine Quality Check' to your fingertips .
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02. Kidney Diseases Classification | Link *Python,Deep Learning,CNN,Tensorflow,Mlflow,DVC,Flask*
Results-oriented Data Scientist specializing in Deep Learning and healthcare applications, with a proven track record in leading a groundbreaking Kidney Diseases Classication project. Adept at implementing state-of-the-art deep learning models, my expertise extends to utilizing modular coding practices, MLFLOW, DVC, and Flask for seamless end-to-end solutions.
Deep Learning : Expertise in designing, training, and deploying deep neural networks for healthcare applications, achieving breakthrough results in Kidney Diseases Classification.
Modular Coding : Proficient in developing modular and scalable code structures, optimizing efficiency, and facilitating seamless collaboration.
MLflow : Skilled in utilizing MLflow for experiment tracking, model packaging, and deployment, ensuring a streamlined machine learning workflow.
Data Version Control (DVC) : Adept at implementing DVC for versioning and managing large-scale healthcare datasets, ensuring data integrity and reproducibility.
Flask : Experienced in building web interfaces using Flask, providing stakeholders with intuitive access to complex deep learning models.

03. Q/A CHATBOT | Link *Python OpenAI Langchain Huggingface*
* Visionary AI Engineer leading the development of a cutting-edge Q/A Chatbot as part of the Gen AI project.
* Implemented Hugging Face's LLM model for advanced natural language understanding and generation.
* Orchestrated seamless communication using LangChain to optimize performance and adaptability.
* Integrated OpenAI's capabilities to enhance chatbot responses, ensuring dynamic and contextually relevant interactions.
* Achieved a highly responsive and user-friendly Q/A Chatbot, showcasing expertise in natural language processing and machine learning.

CERTIFICATIONS

- Machine Learning Internship - **SystemTron**
- Python Programming - **Microsoft**
- Data Science Certificate - **iNeurone**