AKSHAT KUMAR NISHAD

Sector - 51, Gurugram, HR, IN • +91-7004235263 • akshatrajsahani@gmail.com
www.linkedin.com/in/akshat-kumar-nishad

SUMMARY

Experienced Data Scientist and Machine Learning Engineer with a proven track record in statistical analysis, machine learning, and natural language processing. Expertise in transforming complex data into actionable insights using SQL, Python, and advanced ML frameworks. Demonstrated success in AI model development, pipeline design, and real-time dashboard creation. Committed to staying current with emerging trends to deliver cutting-edge solutions.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, JavaScript
- **Machine Learning:** TensorFlow, XGBoost, Random Forest, Decision Trees, PyTouch,Hugging Face
- **Deep Learning:** Artificial Neural Networks (ANN),Natural Language Processing (NLP)
- **Data Analysis & Visualization:** pandas, NumPy, Matplotlib, Seaborn, Power BI
- **Web Frameworks:** FastAPI,Flask
- **Containerization**: Docker
- **Workflow & Automation:** Apache Airflow, Databricks,SAS Enterprise Miner,SAS Visual Analytics
- **Cloud Platforms:** AWS (SageMaker,S3)
- **Operating Systems:** Linux,Windows
- **Statistical Analysis Tools:** SAS,R*
- **Data Engineering:** Data Transformation & Processing, ETL Processes,SQL Databases
- **Project Management:** JIRA, Agile Methodology, Version Control (Git)
- **Web Scraping:** Selenium

WORK EXPERIENCE

Project Engineer 3 PE-3 ,Oges Solutions Pvt. Ltd. **June 2023 - Present**

- Developed and deployed machine learning models for cement quality prediction.
- Designed and implemented FastAPI-based backend systems for HVMS, including architecture integration of SAS services using Python.
- Created live data connectors and REST APIs for real-time data flow across departments in the CVC Dashboard.
- Led AI-based reservoir modeling using M2 forecasting and kriging techniques, integrating SAS services with Python and deploying models using REST APIs built with FastAPI.
- Integrated AI models into production systems using FastAPI, ensuring seamless deployment and interaction with other applications.
- Directed cross-functional teams in the development of ML models and backend services.
- Integrated speech-to-text and text-to-audio features for app accessibility.
- Deployed risk management models for onshore operations.
- Developed domain-specific language models using Distil GPT2 and neural networks.

Project Engineer ,Oges Solutions Pvt. Ltd. **Nov 2022 - June 2023**

- Deployed machine learning models using AWS SageMaker and utilized S3 buckets for scalable data storage.
- Extracted insights with advanced machine learning techniques for predictive modeling.
- Conducted statistical analysis and optimized ML/DL models, including ANN, CNN, RNN, XGBoost, RF, DT, and Prophet.
- Designed data pipelines for supervised learning in SAS Viya.
- Built interactive real-time dashboards using SAS Viya and Power BI for business intelligence and monitoring.
- Scheduled automated jobs using Nano Crontab and SAS Viya Job Scheduler to ensure timely updates and real-time data flow for dashboards.
- Executed end-to-end SDLC processes, including gathering project requirements, designing ML models, coding, testing, and deploying solutions.
- Worked closely with cross-functional teams to deploy ML models seamlessly into production environments.

Data Analyst Trainee, FunctionUP **June 2022 - November 2022**

- Created advanced dashboards using Excel for business insights.
- Performed exploratory data analysis with Python libraries such as pandas, NumPy, and Matplotlib.
- Conducted complex SQL queries to analyze and extract insights from large datasets.
- Developed a cryptocurrency dashboard using Power BI for market analysis.
- Implemented machine learning algorithms on Black Friday sales data, predicting customer behavior and purchase patterns.
- Applied feature engineering techniques to optimize the performance of machine learning models and improve prediction accuracy.

EDUCATION

Bachelor's Degree in English Literature **2019 – 2022**

- Adarsh College, Rajdhanwar

CERTIFICATIONS

- Google Data Analytics Professional Certificate by coursera ,Google
  - https://www.credly.com/badges/5178a091-563e-4e3f-b0bc-79ede60f3121?source=linked_in_profile
- Machine Learning and Image Processing
  - https://thingqbator.nasscomfoundation.org/certificate/aesFcyNbrkcY0xNH
- SAS Viya APIs with Python and R - VLE by sas
  - https://www.credly.com/badges/a83d0ea1-3237-472a-8c69-be1897868855/linked_in_profile
- IBM Data Science by coursera
- Generative AI with Large Language Model by coursera ,AWS and DeepLearning.AI (in Progress)

PROFESSIONAL PROJECTS

1. SAT - SAS Connectors & Dashboards

- Developed and deployed predictive models using ARIMA, LSTM, Kriging Interpolation, and M2 forecasting.
- Utilized XGBoost, Random Forest, ANN, and Decision Trees for forecasting models, integrated using Python and SAS connectors.
- Fine-tuned and deployed models on AWS SageMaker with S3, utilizing MySQL, MSSQL databases, and OLAP connectors.
- Developed automated workflows for training, validating, and testing models to ensure scalability and seamless integration.

2. AI-Based Reservoir Modeling

- Built data correction, visualization, simulation versioning and forecasting modules using Python and SAS.
- Implemented models with XGBoost, Random Forest, ANN, and Decision Trees.
- Deployed forecasting models on AWS SageMaker using S3 and integrated with SAP HANA and SAP OData connectors.
- Collaborated with SAS Data Science researchers to integrate forecasting models into AWS SageMaker for real-time data processing and model deployment

3. Cement Blog Log Assist

- Designed backend visualization modules for model training and classification (Train, Test, Retrain).
- Implemented model workflow using Python and Dockerized APIs with deployment integration.
- Automated backend workflows for model training, testing, and retraining using Python, ensuring consistency across development cycles.

4. CVC Chairman's Dashboard- Connectors and APIs

- Developed live data flow APIs using SAS SAP OData and SAP HANA connectors.
- Dockerized APIs and Microservices for Layer 1 (Live Data Flow) and Layer 2 (Production, Marketing, CHSE) integration across departments.
- Worked with DCA APIs and MySQL databases for seamless data integration.

5. HVMS/LVMS

- Designed route optimization algorithms for heavy vehicles using Python.
- Built Dockerized backend systems for trip booking and platform architecture APIs without model deployment.

6. HSE Incident Prediction

- Developed classification algorithms for incident prediction using Python and SAS.
- Integrated AI models with MySQL databases and deployed on AWS SageMaker for real-time predictions.

7. Oil and Gas Knowledge Management

- Performed web scraping for industry-specific glossary extraction (Schlumberger and others).
- Fine-tuned DistilGPT and GPT-2 XL , BloombergGPT, models, deployed on AWS SageMaker, utilizing S3 and MSSQL databases.

8. Heavy Vehicle Management System

- Created a trip booking application with backend API and microservices architecture using Python.
- Developed Dockerized REST APIs for platform integration.