Shivam Ravishankar Chaurasia

chaurasiashivam721@gmail.com | 9326147036 | Nerul, Navi Mumbai

github.com/shivamRavishankarChaurasia | linkedin.com/in/shivamchaurasia123 | Portfolio

Skills

Languages: C/C++, Python, JavaScript, SQL , HTML , CSS

Data Science: Machine Learning, Deep Learning, , Time-Series Analysis , EDA , Data Warehouse

Technologies & Tools: Pandas, Numpy, Matplotlib, Scikit-Learn, FastAPI , PowerBI , Tensorflow , Flask , EC2 , S3 , Docker, mlflow , rabbitmq, Linux, Git , MongoDB

Work Experience

Faclon labs , Mumbai Aug 2023 - Mar 2024

Data Scientist (internship)

- Developed a No-Code ML tool for data analysis by designing and implementing model training for regression, classification, and time series forecasting. Engineered automated scheduling features, reducing manual effort by 40%, which optimized workflows for 100+ users. Led end-to-end development, including coding, testing, deployment, and feature enhancements. Successfully commercialized and sold the solution to JSW Steel, improving their operational efficiency.
- Built and optimized data pipelines for Tata Steel and Grasim, improving steam trap efficiency by calculating steam loss and saving 34% of steam usage for the organization.
- Improved forecasting accuracy 20% for Mankind Pharma by applying advanced smoothing techniques to real-time sensor data, publishing high-quality data streams using the MQTT protocol.
- Designed a data pipeline for UltraTech's solar power plant, aggregating and processing real-time IoT sensor data. Implemented an LSTM model to optimize solar irradiance forecasting, resulting in a 44% reduction in energy costs.
- Python , Machine Learning Algorithms, Docker, RabbitMQ, Celery, GCP, Linux, Streamlit, LSTM, MQTT, RapidAPI, Airflow, MLflow, BentoML

Education

Shah and Anchor Kutchhi Engineering College , Mumbai Feb 2020 - Jun 2024

B.E. in Information Technology (Honours Degree - Data science) ***CGPA: 8.46/10***

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining

Project Work

- **AI-Workbench (2024-ongoing):** Developed AI-Workbench, a no-code AI platform using Streamlit that automates data preprocessing, feature engineering, and machine learning modeling, including advanced time series forecasting with ARIMA and LSTM models. By integrating Python-based technologies and eliminating the need for coding, the platform empowers non-technical users to perform end-to-end AI tasks effortlessly. This innovation democratizes AI, enhancing productivity and enabling faster, data-driven decisions for businesses. | Python , LSTM , Docker , Streamlit , mlflow , bentoml.

- **Multi-Disease Diagnostic Platform (2024):** Developed a machine learning platform to predict multiple diseases, including Heart Disease, Diabetes, Pneumonia, Brain Tumors, Breast Cancer, and COVID-19, using Logistic Regression, SVM, and CNN models. Optimized diagnostic accuracy and speed, aiding healthcare professionals in early detection and treatment, improving patient outcome. | Python, TensorFlow, Scikit-learn, Pandas, NumPy

- **Climate Change Analysis of Mumbai (2023) :** Conducted an in-depth climate change analysis of Mumbai (Santacruz area) using NOAA data (2000-2023). Applied linear regression and ridge regression, achieving a MAE of 3.97 and R-squared value of 0.73. Developed a comprehensive Power BI dashboard for monthly, weekly, and yearly climate trend visualizations, providing insightful data-driven conclusions. | Pandas, scikit-learn, ML algorithms, Power Bi

- **Energy Consumption Data Analysis (2023) :** Performed Data analysis for predicting energy consumption by an IoT device employing exploratory data analysis techniques to uncover trends and patterns Applied linear regression, achieving a Mean Absolute Percentage Error (MAPE) of 0.24 and an R-squared score of 0.58 percent. Enhanced prediction accuracy using advanced regression models, including DecisionTreeRegressor, AdaBoostRegressor, and Random Forest . | pandas , sklearn , matplotlib