Rutwik Dakhore

Software Engineer | Data Science Enthusiast

GitHub | LinkedIn | Email | Portfolio

Work Experience

Software Engineering Associate, AMDOCS (Oct 2021 – May 2022)

- **Designed and automated CI/CD pipelines** using **Jenkins**, reducing deployment time by **40%** and minimizing manual errors.
- **Developed REST APIs** for internal applications, improving system integration and data exchange.
- Assisted in integrating non-production config maps with production config maps, optimizing configuration management in an internal project.
- Developed a Jenkins job to securely encrypt passwords in log outputs across multiple Jenkins jobs, enhancing security and compliance.

Projects

- IoT-Based Patient Monitoring System for Healthcare (Sep 2020 – Feb 2021)
    - Designed and implemented an **IoT-based system** using **wearable sensors** to monitor patient vitals (heart rate, temperature, oxygen levels).
    - Developed a **real-time data transmission module** using **Raspberry Pi & MQTT** for continuous monitoring
- Exploratory Data Analysis of Hotel Booking Trends (Aug 2022 – Sep 2022) [Link]
    - Conducted **EDA on hotel booking data** to identify factors affecting cancellation rates using **Python (Pandas, Matplotlib, Seaborn)**.
    - Uncovered key insights on seasonal trends, average booking rates, and cancellation patterns.
- Predicting Mobile Price Ranges with Machine Learning Models (Oct 2022 – Dec 2023) [Link]
    - Developed a **classification model** to predict mobile price categories based on **RAM, battery, processor speed, and screen size**.
    - Implemented **Random Forest and XGBoost models**, achieving **85% accuracy**.
    - Performed **feature engineering & hyperparameter tuning**, improving model efficiency.
- Bike Sharing Demand Forecasting Using Machine Learning (Jan 2023 – Mar 2023) [Link]

    - Built a **time-series forecasting model** to predict daily demand for a bike-sharing system.
    - **Linear Regression, Decision Trees, and LSTM neural networks** were used for prediction.
    - Achieved **20% improvement in demand prediction accuracy** by applying **seasonality and trend analysis**.
- Customer Segmentation for Online Retail Using Machine Learning (Mar 2023 – May 2023) [Link]
    - Applied **K-Means clustering & Hierarchical clustering** to segment customers based on purchase behavior.
    - Identified **4 key customer segments**, enabling businesses to **target promotions effectively**.
    - Enhanced customer engagement by **15%** through data-driven marketing strategies.

Education

Bachelor of Engineering in Electronics & Telecommunication, D.M.I.E.T.R, Wardha

- Graduated in 2021 with a strong 9.7 CGPA

Courses

- Full Stack Data Science Certification, Almabetter (June 2022 – June 2023)

    - Hands-on experience with real-world datasets, implementing machine learning and deep learning models.
    - Proficient in tools and technologies, including Python, SQL, TensorFlow, PyTorch, NumPy, Pandas, and Scikit-Learn.
    - Focused on model optimization, data visualization, and collaborative Agile practices.

Technical Certifications

- Java (Core & Advanced) (Nov 2021 – Mar 2022)
- Python (Nov 2019 – Jan 2020)
- SQL (Nov 2019 – Feb 2022)
- C, C++ (07/2019 - 09/2019)
- Dot Net (11/2020 - 04/2021)