

Salman Mohammed

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Profile

Machine Learning Engineer with a proven track record in building scalable ML operations pipelines and deploying models using CI/CD and cloud containerization. Skilled at designing robust monitoring systems, diagnosing deployment issues, and documenting end-to-end processes. Experienced in collaborating with multidisciplinary teams to drive continuous improvements in production environments.

Education

Saint Louis University

Master of Science, Analytics

May 2025

Jawaharlal Nehru Technological University

Bachelor of Technology

May 2021

Experience

Data Evolve Solutions

Machine Learning Engineer

Jan 2023 - Aug 2024

- Collaborated with cross-functional teams on the Digi Yatra project to enhance airport efficiency and security through advanced facial recognition technology.
- Developed an AI model for boarding pass scanning using PyTorch, improving classification accuracy via transfer learning and ensemble techniques.
- Designed and maintained scalable ML operations pipelines by engineering a YOLOv7-based Barcode Detection Model, containerized with Docker and deployed on Amazon EKS via KServe.
- Implemented robust CI/CD practices by deploying APIs through AWS API Gateway and Lambda, ensuring seamless integration and reliable system performance.
- Optimized real-time flight data collection using Docker, cron jobs, RabbitMQ, and Amazon MQ to support continuous pipeline uptime.
- Managed containerized deployments on AWS ECR and ECS to onboard airports into Digi Yatra, following security and scalability best practices.
- Configured load balancers and developed scalable Python applications using AWS Lambda to support parallel testing environments.

Ineuron

Nov 2021 - Aug 2022

Data Science Intern

- Developed a Random Forest regression model for Rental Bike Share Prediction, achieving an 80% accuracy improvement and deployed using Heroku.
- Built Logistic Regression and SVM models for Algerian Forest-Fire Classification, achieving 85% accuracy through kernel methods and feature selection.
- Conducted comprehensive model evaluation using MAE, RMSE, Precision, Recall, and F1-Score with cross-validation to ensure predictive reliability.
- Created interactive dashboards with Matplotlib, Seaborn, and Plotly to effectively communicate data insights to stakeholders.

Projects

Health Risk Assessment Portal - Capstone Project

Saint Louis University

- Built a machine learning-based web app using Python, FastAPI, and React to predict risks of diabetes, heart disease, and kidney disease.
- Used Synthea-generated EHR data and implemented Random Forest models achieving 85%+ ROC-AUC.
- Developed backend data pipelines for preprocessing and feature engineering.
- Deployed the application on Vercel, enabling real-time risk assessments and visual dashboards for healthcare administrators.

Skills

- **Programming & Tools:** Python, SQL, MongoDB, Git, CI/CD, Docker, Kubernetes, AWS, GCP, Power BI
- **Frameworks & Libraries:** PyTorch, TensorFlow, Keras, JAX
- **AI/ML & Domain Expertise:** Machine Learning, Deep Learning, LLMs, Transformer Models, NLP, Reinforcement Learning, Knowledge Distillation, Model Compression, Evaluation Metrics, Data Analytics, Product Innovation
- **Data & Analytics:** EDA, Feature Engineering, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Plotly, Computer Vision