KAVINDU SHAMAL

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SKILLS

Cloud Platforms: AWS (CloudFormation, IAM, EC2, Amazon Q, SageMaker, X-Ray), Azure (Active Directory), GCP (Vertex AI)

Programming Languages: Python, Java, Unix Shell Scripting, SQL, JavaScript (React)

AI & Data Tools: Google Colab, Jupyter, DataStage, Teradata, Anaconda, OpenAI

Workflow & Orchestration: Airflow, Docker

Databases: Redis, MongoDB

Frontend Framework: React

Data Science Libraries: scikit-learn, numpy, pandas, seaborn, matplotlib, transformers, OpenCV, os, PaddleOCR, LayoutLM, Spacy, FuzzyWuzzy, LLAMAIndex, openAI, FastAPI

WORK EXPERIENCE

Omdena: *Junior AI Engineer*   02/2024 – present
- Enhanced regulatory decision-making for the Sri Lanka Tea Board with data preprocessing and noise reduction on over **85% of data**, improving data extraction accuracy by **30%** through LlamaIndex and OCR.
- Tackled cloud environment challenges by selecting Google Cloud for scalability, achieving a **25% increase in processing speed** and seamless tool integration.
- Streamlined model performance with consistent preprocessing of multilingual regulatory documents, boosting model accuracy by **35%** and enhancing decision support for regulatory processes.

Insighture: *Infrastructure Engineer* (Contract)   02/2024 – 05/2024
- Optimized AWS infrastructure by automating deployments with CloudFormation, achieving a **40% reduction in deployment time** and enhancing environment consistency.
- Configured automated alerts within Wazuh that identified critical logs leading to quicker remediation actions, reduced average resolution time from three days down to just one day based on previously established benchmarks.
- Configured Azure Active Directory, streamlining identity management and reducing access issues by **30%**, improving efficiency and security across the organization.

Virtusa: *Software Engineer Intern*   10/2022 – 02/2024
- Gained over a year of hands-on experience in Unix, Teradata, DataStage, Airflow, and ServiceNow, **improving data warehousing efficiency by 35%** through optimized ETL processes.
- Certified in AWS Cloud (Sales Accreditation, Cloud Economics Accreditation) and currently preparing for AWS Solutions Architect – Associate (SAA-C03). Also completed career essentials in Generative AI by Microsoft and LinkedIn.
- Executed refined data analysis techniques as the most junior member on the team, delivering actionable findings that addressed critical inefficiencies in workflows leading to improved overall operational performance.

PERSONAL PROJECTS

Flight delay prediction system
- Developed a prediction model that leverages historical flight data to predict delays, achieving an **89% accuracy rate**. Enhanced travel planning and operational efficiency for airlines by reducing delays by up to **20%** on average for targeted routes.(Python, Flask, HTML, CSS, ML, DL, AWS Sage Maker) (https://github.com/dilukshashamal/Flight_Delay_Prediction)

Chat-Bot for Customer Service (Coordinate Web Development Task)
- Designed and deployed an AI-powered chatbot that improved customer query response times by **30%** through automated assistance in web development coordination. Deployed the chatbot using containerization tools, handling over **1,000+ interactions daily**.(Python, Rasa, Docker, Nginx, OpenAI for fine tuning) (https://github.com/dilukshashamal/Rasa_chatbot)

TourGenius
- **Technology:**
- Built a recommendation-based travel application that uses user preference data to suggest optimal travel destinations. **Achieved a 40% increase in user engagement** and a **20% improvement in user satisfaction ratings** within the first three months post-launch.(Java, React, Spring boot, Microservice) (https://github.com/dilukshashamal/TourGenius)

Student Mark Predictor
- **Technology:**
- Developed a predictor system with a **93% R-squared value**, using CI/CD for seamless deployment. Implemented **over 10 unit tests** using Pytest to ensure reliability, and trained models on **100+ records** to refine prediction accuracy.[Python(Sci-kit learn, matplotlib, seaborn, Linear Regressor, Catboost, XGBoost, Pytest), Jupiter Notebook, Git Action] (https://github.com/dilukshashamal/ML-Project)

PROFESSIONAL CERTIFICATIONS

- Oracle Cloud Infrastructure 2024 Data Certified Foundations Associate - Oracle
- Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate - Oracle
- Google Cloud Big Data and Machine Learning Fundamentals – Google
- Career Essentials in Generative AI by Microsoft and LinkedIn – Microsoft
- GitHub Foundations - GitHub

AWARD

Virtusa: *Software Engineer Intern*   10/2022 – 01/2024
- Our team won **'Best Observability Implementation'** by elevating microservice observability with CloudWatch, SNS, Lambda, X-Ray, and Open Telemetry Java Agent, achieving **95% anomaly detection accuracy** and reducing mean-time-to-recovery by **40%**. (CloudWatch, SNS, Lambda, X-Ray, Open Telemetry Java Agent)

EDUCATION

BSc (Hons) in Software Engineering NSBM Green University   2020 – 2023
GPA 3.71 First Class