KIRAN S THOMAS

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AARON PHILIP

EDUCATION

Vijayagiri School of Engineering and Technology — Kochi, Kerala
B.Tech in Computer Science Engineering: 2018 - 2022 — *CGPA: 8.98*

Bharatiya Vidya Bhavan — Palakkad, Kerala
Higher Secondary School - Class 12th: 2016 – 2017 — *Percentage: 84.6*

Bharatiya Vidya Bhavan — Palakkad, Kerala
Higher Secondary School - Class 10th: 2014 - 2015 — *CGPA: 10*

EXPERIENCE

Associate Software Engineer — **September 2022 – Present**
Illumination Technologies — *Bengaluru,Karnataka*

AI/ML Solution for Leading Oil and Gas Company

- **ML Automation Solutions:** Developed Python-based automation processes in Sagemaker Studio, eliminating over 1 million manual actions annually, improving operational efficiency.
- **Data Manipulation & Visualization:** Utilized Python libraries (Pandas, Numpy, Matplotlib) to extract, clean, preprocess, and visualize large datasets from S4 HANA to RDS, contributing to a 15% reduction in unattended alarms.
- **SQL Expertise:** Leveraged SQL for data preparation and manipulation, ensuring accurate analytics and ML model training.
- **Cloud Deployment:** Deployed Flask APIs on AWS Lambda, optimizing data storage with AWS S3 and RDS, saving 6-8 hours of manual effort daily.

Invoice Fraud Detection Using Machine Learning

- **Fraud Detection Model:** Built machine learning models (Logistic Regression, Isolation Forest, Random Forest) to detect fraudulent invoices, achieving a 92% detection rate in real time, reducing financial risk.
- **Feature Engineering:** Created fraud risk features based on invoice amounts, vendor patterns, and payment anomalies to enhance model performance.
- **Anomaly Detection:** Used Isolation Forest to identify outlier transactions and flag potential fraud,
- **Automation & Cloud Integration:** Automated fraud detection using AWS Lambda and integrated it with the client's invoice platform for real-time fraud analysis, enhancing financial controls and reducing potential losses.

Spend Analytics

- **Supplier Categorization:** Developed Python scripts using NLP and deep learning models to categorize supplier data, reducing manual categorization by 30%.
- **Expenditure Prediction & Visualization:** Leveraged AWS Quicksight and advanced algorithms to automate expenditure forecasting and provide intelligent visual insights for supplier analysis.

TECHNICAL SKILLS

- **Programming Languages:** Python
- **AI/ML and Data Analytics:** Scikit-learn, Pandas, NumPy, Matplotlib, NLP
- **Machine Learning Techniques:** Logistic Regression, Decision Trees, Random Forest
- **Deep Learning Frameworks:** Pytorch, transformers
- **AWS:** API Gateway, AWS Sagemaker Studio
- **Azure:** Azure Blob Storage
- **Databases:** MySQL

AWARDS

- **Mountain Mover Award (2023):** Received this prestigious award in recognition of outstanding contributions and achievements.