KAVIYARASI SEKAR

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SENIOR SOFTWARE ENGINEER & DATA SCIENCE ENTHUSIAST

Expertise in Data Integration, Analytics, ETL Process, Competitive Intelligence, and Real-Time Data Processing.

PROFILE SUMMARY

I am a results-driven Senior Software Engineer with over 7 years of experience in software development, specialising in data integration, analytics, and ETL processes using Core Java. I have recently completed an MSc in Data Science from Coventry University, where I honed my skills in machine learning and big data analytics. My combined software engineering and data science expertise enables me to transform complex datasets into actionable insights, driving business decisions and operational efficiencies. I am now eager to leverage my expanded skill set in data-centric roles and contribute to innovative projects.

EDUCATION

MSc in Data Science, Coventry University, Nov 2024 | Degree Awarded

- **Key Courses:**
  Python Programming, R Programming, Machine Learning, Data Management Systems, Big Data Analytics
- **Academic projects:**
  - **Big Data Analytics and Data Visualization**: Analysed the relationship between exercise-induced angina and heart disease severity using PySpark, producing insights to assist in medical decision-making.
  - **Prediction of Maternal Health Risk**: Developed predictive models using machine learning algorithms to assess maternal health risks, enhancing early intervention strategies.
  - **Real-Time Drowsiness Detection**: Implemented a real-time drowsiness detection system using Vision Transformers (ViT) and machine learning, contributing to road safety technologies.

B. Tech in Information Technology, Kings College of Engineering, 2015 | CGPA: 7.1

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Sciera, Inc., Jan 2016 - Aug 2023
Led data-driven software projects, focusing on Core Java for efficient ETL processing, data analytics, and data integration. I played a key role in enhancing competitive intelligence and operational effectiveness through innovative data solutions.

- **Real Estate Analytics Platform:** Developed an ETL analytics platform to aggregate and analyse real estate transactions, resulting in a 20% increase in customer acquisition for major cable companies.
- **C-Tell Competitive Intelligence Tool:** Engineered a Selenium-based aggregation product that provided deep insights into service category benchmarks, improving client service offerings by 25%.
- **Promo Watch Tool:** Created a tool for tracking and analysing telecom industry promotional offers, optimizing campaign alignment, and driving a 15% increase in ROI

TECHNICAL SKILLS

- Programming Languages: Core Java, Python
- Databases & Big Data: MySQL, SQL Server, Amazon Redshift, Apache Spark (PySpark), Hadoop
- Cloud & DevOps: AWS (SQS, S3, EC2, Athena, Glue), Docker
- Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Tableau
- Tools & Platforms: Git, Jupyter Notebook, Elasticsearch

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (https://www.credly.com/badges/b52f3f62-e5d5-448d-ac77-c03bb4aab41d?source=linked_in_profile)

ADDITIONAL INFORMATION

VOLUNTEERING EXPERIENCE

Volunteer Community Engagement Worker
Wellbeing Monitor Limited, Coventry City Council Office, Dalton House, Wrexham, Wales
June 2023 – Present

- Provide mental health consultancy services, offering counselling and therapy to individuals dealing with mental health challenges, stigmatization, and fears related to HIV, TB, and Hepatitis C.
- Engage with community members to facilitate testing and counselling services, supporting public health initiatives and improving access to essential healthcare resources.

WORK AUTHORIZATION

- **Graduate Route (Post-Study Work) Visa:** Valid until 4 Feb 2027.