

VIJAYAKUMAR ASOKAN

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Date of Birth: 02 October 1997

Experienced Data Analyst skilled in Python, SQL, SSIS, SSRS, R, and Power BI with a master's degree in Advanced Computer Science specializing in Data Science. Proficient in data analysis, cleaning, modeling, and visualization. Seeking a growth-oriented opportunity to contribute to the corporate mission and exceed team goals. A Logical and creative thinker with strong problem-solving and organizational skills, able to adapt to changing priorities.



Skills

Tools / Technologies: Power BI, Tableau, SSIS, SSRS, Advanced Microsoft Excel, SharePoint, ArcGIS Pro, Power Automate, PySpark, Jupyter Notebook, Visual Studio Code, R Studio, Anaconda Navigator, Kubernetes, KNIME, Data Bricks, Lakehouse, RPA – UiPath, Azure, AWS, Swagger, and Confluence.

Programming Language: Python, R, SQL, JavaScript, Visual Basics for Application (VBA)

Database: MySql

Other Skills: Reporting, Data Visualization, Data Automation, Data Analysis Expressions (DAX), ETL, xIWings, OpenPyxl, PyArcGIS, PyAutoGUI, Selenium, Statistics, Neural Network, Machine Learning, Data mining, Deep Learning, Automation, Linear Regression, Logistic Regression, Scikit-Learn, Decision tree, Computational Algorithm, High-Performance Computing, K-nearest Neighbor, Support Vector Machine, Principal Component Analysis, Gaussian Mixture Models, K-Means, Big data, NumPy, Keras, Pandas, Matplotlib, TensorFlow, Pytorch, Keras, Software Development, Project Management, Stakeholder Management, Azure Devops, RestAPI, OpenAPI, Open Banking.

Soft Skills: Analytical and Problem Solving, Leadership, Teamwork, and Communication.



Work History

Sep 2022 –
Oct 2023

Data Analyst

Retail & Financial Consulting Limited, Basingstoke, England, UK

- Analyzed and generated daily, weekly, monthly reports emphasizing details such as balance, and amount dispensed per ATM for every customer using advanced Excel formulas and Power query editor.

- Redesigned database schema for speedier SQL execution (data normalization where necessary).
- Enhanced the monthly reports highlighting daily ATM transactions status using data modelling in Power BI dashboards, DAX, Power Query editor, and MySQL.
- Created an automatic report generation system for daily reporting using Python.
- Implemented data preprocessing operations using MySQL, including importing and analyzing data; reduced data processing time by 50% and improved overall efficiency of data-driven decision-making processes.
- Streamlined client reporting process through implementation of automated data analysis tools, reducing report anomalies and enhancing overall efficiency.
- Big data processing procedure through use of cluster execution and container management (Azure Data Bricks).
- Led the migration of legacy databases to a new platform, ensuring seamless data transfer and reducing data redundancy, resulting in a 15% improvement in database performance and data accuracy.
- Identified and resolved critical VBA script errors through cross-functional collaboration, ensuring data integrity and enabling precise financial reporting.
- Developed and implemented an innovative All-Purpose Cash Forecasting model, analyzing historical data and market trends to accurately project cash flow, resulting in a 25% reduction in cash flow discrepancies and improved financial decision-making processes.
- Developed and implemented a data mining tool leveraging machine learning algorithms to automatically categorize customer transaction data in Open Banking.

Feb 2022 –
Sep 2022

Full Stack Developer

Retail & Financial Consulting Limited, Basingstoke, England, UK

- Developed and executed comprehensive test plans for ATM software, ensuring 100% functionality and compatibility across multiple platforms, resulting in a 20% reduction in customer support issues and increased customer satisfaction.
- Developed and tested cutting-edge ATM software, implementing industry best practices and ensuring seamless functionality across multiple platforms and devices.
- Assisted with the upkeep of software for Open Banking payment app.
- Conducted in-depth analysis of customer needs, translating them into software solutions that streamlined processes and reduced manual effort.
- Collaborated closely with teams at all stages of the systems development lifecycle, ensuring effective requirement collection, efficient development, and successful production releases.
- Collaborated with cross-functional teams to execute comprehensive software field testing (UAT) for a high-profile project, validating functionality and usability, enhancing user experience, and customer satisfaction scores.

Feb 2019 –
April 2019

Internship Student

Sheffield Hallam University, Sheffield, England, UK

Led a dynamic short-term Artificial Intelligence and Deep Learning program, implementing advanced algorithms and neural networks to analyze complex datasets, leading to a improvement in predictive accuracy and enabling data-driven decision-making.

Capstone Project

Project Title: Developed and implemented a state-of-the-art deep learning model using TensorFlow to achieve 98% accuracy in object recognition, improving efficiency and reducing manual classification efforts.

Project Description: Though there are many object detection classifiers using TensorFlow, we used the most recent pre-trained model in TensorFlow, which gives higher accuracy of the object from drone angle, which is faster and supported by coco datasets.



Education

Sep 2020 –
Oct 2021

Master's: Advanced Computer Science with Specialized in AI and Data Science

University of Reading - England, UK

Project

Title: Handling Class Imbalance in Medical Image Datasets using Convolutional Neural Network (CNN), Generative Adversarial Network (GAN) and Variational Auto-Encoder (VAE).

Datasets: Chest X-Ray, CT Scan, Brain Tumor, Skin Cancer, Malaria Cell, Cell Nucleus, MNIST, Fashion-MNIST, CIFAR-10.

Models: CNN - VGG16, VGG19, DenseNet 169, DenseNet 121, MobileNetV2, Inception V3, InceptionResNetV2, ResNet50.

Sep 2015 –
May 2019

B.Tech: Computer Science and Engineering

Dr.M.G.R Educational and Research Institute University - Chennai, India



Accomplishments

- Python for Data Science and Machine Learning Bootcamp
- Deep Learning A-Z: Hands-on Artificial Neural Networks
- Machine Learning A-Z: Hands-on Python & R in Data Science
- Learn Big Data: The Hadoop ecosystem masterclass
- SQL-MySQL for Data Analytics and Business Intelligence
- Best Paper Award for the paper titled "Developing a Deep Learning Model using TensorFlow to recognize an object" in the National Conference on Innovative Computing Techniques
- Databricks Lakehouse Fundamentals.