SAHIL AGGARWAL

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PROFESSIONAL SUMMARY

Dynamic and results-driven Associate Consultant with a proven track record in data analytics, machine learning, cloud computing, and web development. Expertise in designing and deploying automated processes, optimizing data pipelines, and delivering scalable solutions that drive operational efficiency. Adept at handling complex datasets, integrating advanced technologies, and ensuring seamless workflow automation. Seeking to apply my analytical and technical skills to foster innovation and growth within a forward-thinking organization.

PROFESSIONAL EXPERIENCE

TAO Pvt. Ltd.
Associate Consultant
December 2022 – Present

- Led the extraction of critical invoice elements (e.g., tax slabs, invoice numbers, dates, vendor/buyer details) from complex Indian invoices, optimizing accuracy and efficiency.
- Automated the State Through Process (STP), streamlining manual verification steps and achieving significant productivity gains.
- Developed and deployed a system to map and link Discrepancy Notes to their respective invoices, improving tracking, traceability, and issue resolution timelines.
- Implemented detailed logging mechanisms to enhance the traceability and maintainability of multiple projects.
- Migrated the organization's messaging infrastructure from Azure Event Grid to Kafka, resulting in substantial operational cost savings.
- Achieved a 97% accuracy rate across 33 invoice fields, improving ACE by 70% and boosting STP automation by 50%.

Capgemini Pvt. Ltd.
Senior Data Analyst
October 2020 – December 2022

- Developed scalable web applications utilizing the Django REST framework, focusing on efficient data handling and backend performance.
- Managed and processed vast datasets, preparing them for machine learning applications and ensuring data integrity.

- Conducted extensive web scraping using Beautiful Soup and Selenium, aggregating critical data from diverse online sources.
- Streamlined data pipelines leveraging AWS services such as Glue, Lambda, S3, RDS, SQS, and Redshift, optimizing data processing and reducing latency.
- Designed and implemented REST APIs using AWS Lambda and API Gateway, enabling real-time data access and processing.
- Engineered Lambda functions to process data streams via AWS Kinesis, enhancing the system's data analytics capabilities.
- Efficiently scraped and stored large volumes of data in AWS Redshift, facilitating advanced analytical insights for clients.

PROJECTS

Soccer Player Rating Regression Model
Technologies: Python, SQL, Flask, HTML, Render, GitHub

- Developed an end-to-end machine learning pipeline, including data ingestion, transformation, and model training for player rating predictions based on match statistics and player metrics from top European soccer leagues.
- Managed a dataset comprising 183,978 rows, handling various data engineering challenges such as missing data imputation, feature engineering, and robust data validation.
- Enhanced model accuracy through hyper-parameter optimization and cross-validation techniques, deploying the model via a CI/CD pipeline on Render for continuous integration and seamless updates.
- *[GitHub](#) | [Live Demo](#)*

Emotion Detection Model Developer
Technologies: Python, Keras, Docker, Streamlit, DVC, GitHub

- Built and optimized multiple emotion detection models using deep learning frameworks, achieving a precision of 0.62 and recall of 0.68.
- Implemented advanced pretrained models such as ResNet, VGG16, DenseNet, and MobileNet to improve model performance and reduce computational costs.
- Integrated Data Version Control (DVC) to manage large-scale model files effectively, ensuring version control across different stages of development.
- Deployed a real-time emotion detection application using Streamlit, offering both image-based and live webcam-based emotion prediction functionalities.
- *[GitHub](#)*

TECHNICAL SKILLS

- **Programming Languages:** Python
- **Web Frameworks:** Django REST Framework, Flask
- **Frontend Technologies:** HTML, CSS
- **Data Processing:** Beautiful Soup, Selenium, SQL
- **Cloud Platforms:** AWS (Lambda, S3, Glue, RDS, SQS, Redshift)
- **DevOps Tools:** Docker, Git, GitHub, DVC
- **Databases:** MySQL, AWS Redshift
- **Machine Learning & Deep Learning:** TensorFlow, Keras
- **Version Control:** Git, GitHub
- **Operating Systems:** Linux, Windows
- **Languages:** English, Hindi, Punjabi

EDUCATION

Jaipur Engineering College and Research Centre
Bachelor of Technology (B.Tech) in Information Technology
2016 – 2020 | CGPA: 7.31/10

Guru Harkrishan Public School
Senior Secondary (12th)
March 2016 | Percentage: 84%

CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate**
- **Data Science and Machine Learning Specialization – Coursera**