Abhishek Radhakrishna

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Summary

Experienced data scientist with proficiency in Python, SQL & AWS with 8 years of experience in database management, ETL development, data warehousing, customer segmentation, demand forecasting and time series analysis. Subject expert on data modelling, RDDs management, machine learning, artificial intelligence and statistical analysis. Proven leadership skills and excellent communication abilities to effectively collaborate with cross-functional teams and deliver results. Hands on experience in coding standards, agile methodologies, testing, operations and maintenance of optimal data pipeline architecture for greater scalability. Led the ideation and implementation of innovative concepts, ensuring product line remains at the forefront of industry advancements. Collaborated seamlessly with cross-functional teams and facilitated tailored solutions to meet unique customer needs while driving future development initiatives. Well-versed in explaining complex design concepts to stakeholders across all levels. Resourceful and innovative with aptitude for solving challenges.

Experience

UST GLOBAL | Bengaluru, India
Lead Data Scientist | 02/2024 - Present

- Act as the resident **Gen AI** authority, offering specialized expertise and guidance to the team.
- **Processed ~100GB** of code repositories and documentation for building a GPT-based technical code review model, **accelerating product delivery by two months**.
- Lead and oversee **ML initiatives for two high-profile clients**, driving impactful strategies and measurable results.

Tookitaki Technologies Pvt Ltd | Bengaluru, India
Data Scientist | 03/2022 - 01/2024

- **Orchestrated the seamless end-to-end delivery of products to five global clients**, overseeing the successful construction and deployment of solutions across production tech-live and business-live environments
- **Managed ~250GB** of transactional and customer data for Anti-Money Laundering (AML) systems, optimizing ETL pipelines and **reducing** processing times by **70% using Spark on AWS EMR**
- **Led efforts to enhance team capabilities and resourcefulness** through organizing regular knowledge sessions, workshops, and interactive training programs, fostering a culture of continuous learning and growth
- **Proactively address operational challenges** and mitigate potential risks to achieve objectives related to speed, scalability, service, and cost, with a steadfast **commitment to prioritizing customer experience above all else**

ASML | Eindhoven, Netherlands
Lead Design Engineer | 11/2018 - 09/2020

- Engineered an automated data pipeline for **~400GB, slashing data processing time by 46%,** thus accelerating analysis and facilitating quicker decision-making processes
- Pioneered the implementation of a feedback algorithm across multiple Micron fabs, **yielding a remarkable 60% increase in production yield by enhancing process control efficiency**
- **Achieved significant annual savings of $24.5 million** by streamlining operations through the automation of wafer table reconditioning techniques at Micron, leveraging an event-triggered job scheduler to **eliminate approximately 2700 man-hours**
- **Spearheaded the ideation and implementation** of novel concepts, products, and features, driving heightened customer satisfaction, reduced expenditures, and ensuring our product line remains at the forefront of the industry's advancements.

KLA | Chennai, India
Applications Engineer | 11/2016 - 09/2018

- **Demonstrated industry-leading expertise** in automated wafer inspection across diverse markets including display, μ-LED, and Power devices
- Led application efforts for the seamless **integration of ZetaScan inspection systems in 2018, overseeing characterization, demonstrations, and field support across the US-EU market.**
- Acted as the primary liaison and **technical expert for over 25 customers across the US-EU region**, providing comprehensive support and characterization for compound semiconductor defect inspection systems.
- **Collaborated extensively with cross-functional teams** including software development, system engineering, sales, marketing, and regional business units, **facilitating tailored solutions for key customers'** unique use-case requirements and driving future development initiatives.

Skills

Machine Learning, Anomaly Detection, Predictive Modelling, Regression Analysis, Multivariate Analysis, Time Series Forecasting, Data Pipelining, NLP, Data Visualization, Big Data Platforms, ElasticSearch, Cloud Computing, Database Management, Algorithms and Optimization

Tech Stack

- **Scripting Languages**: Python, R, Shell, VBA
- **Database Management Systems**: SQL, Hadoop, MongoDB, Scala, Kafka, Snowflake, Azure, AWS, GCP
- **AWS Technologies**: Lambda, Sagemaker, EC2, S3, Firehose, MLOps, DynamoDB
- **Data Analysis & ML**: Statistical Modelling, Multivariate Analysis, Deep Learning, Text generation, Sentiment Analysis
- **Platforms**: Databricks, Dataiku, MLFlow,
- **ML Libraries**: Spark, MLlib, Keras, TensorFlow, PyTorch, scikit-learn
- **NLP Libraries**: spaCy, Hugging Face Transformers, NLTK
- **Generative AI**: LLMs. Prompt Engineering, RAG, Knowledge graphs, OCR, Word2Vec, GPT, DALL-E
- **Dashboards**: Power BI, Tableau, , Looker
- **DevOps Tools**: Docker, Kubernetes, Terraform

Education

University of Florida | Gainesville, USA
Master of Science in Materials Science and Engineering | 08/2016

- Achieved Dean's List recognition in 06-2016 for academic excellence
- Completed a minor in Business Analytics, enhancing analytical skills and business acumen
- Awarded an Academic Scholarship of $5000 from the Ascend Materials Society

Indian Institute of Technology-Madras | Chennai, India
Bachelor of Tech. in Metallurgical and Materials Engineering | 06/2014

- Earned first place at the Asia Pacific Student Entrepreneurship Society during the Model United Nations in Manila, 2014
- Contributed as a shooting guard to the IIT Madras Basketball team, showcasing teamwork and leadership abilities