

# Sal\_Minhas

**Expert Machine Learning Engineer | Senior Data Scientist | AI & ML Specialist**

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## Summary

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With a decade of experience in Machine Learning, I offer deep expertise in Python, R, and Java. My skills encompass advanced algorithm development, data preprocessing, feature engineering, and model evaluation. I have worked across various domains, including computer vision, natural language processing, and recommender systems. Proficient in deploying models with Docker, Kubernetes, and AWS, I bring hands-on experience in production environments. My expertise extends to TensorFlow and PyTorch, where I leverage deep learning architectures to enhance model performance. I am skilled in SQL for effective data manipulation and have a solid grasp of distributed computing frameworks like Apache Spark. My achievements include developing NLP systems that significantly improved customer satisfaction and employing graph-based algorithms to enhance recommendation system diversity. My focus is on implementing scalable, efficient machine learning pipelines to deliver impactful solutions.

## PROFESSIONAL EXPERIENCE

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02/2022 – Present

### Lead Data Scientist

*47Billion*

- Led the development and deployment of advanced AI/ML solutions, including Generative AI, Large Language Models (LLMs), and Retrieval-Augmented Generation (RAG) systems for enterprise clients in healthcare, finance, and telecom.
- Designed scalable AI architectures, delivering solutions like Executive Analytics Chatbots and Multi-Agent Support Bots using GPT-4, LangChain, LangGraph, and vector databases such as Pinecone and FAISS.
- Achieved measurable outcomes such as a 40–60% improvement in query handling efficiency and 20+ hours/week time savings for executive stakeholders through automation and intelligent insights.
- Built persistent, memory-enabled conversational agents using LLaMA 3.2, LangSmith, and deployed via Azure Kubernetes Service (AKS), resulting in enhanced customer engagement and streamlined service delivery.
- Implemented end-to-end MLOps pipelines on Google Cloud Platform (GCP) and Microsoft Azure, enabling automated training, deployment, and monitoring of ML models with cost-effective scalability.
- Developed transformer-based NLP models and predictive analytics workflows that generated actionable insights, supporting faster, more informed decision-making across client operations.
- Worked closely with cross-functional teams including data scientists, designers, and DevOps engineers to drive project delivery and client success in Agile environments.

05/2019 – 01/2022

### Senior Data Scientist

*Minute*

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06/2016 – 04/2019

### Data Scientist

*HobbyDB*

- Managed a team of four engineers to build a real-time event and dynamic topic detection pipeline on live tweets using NLP techniques across multiple moving time windows.
- Integrated Twitter Live Tweets API to stream and analyze real-time data, extracting named entities to identify and cluster similar events.
- Applied burst detection algorithms within defined time windows to surface trending events and measure audience engagement.
- Achieved 85% accuracy in the entity detection model for identifying bursting events.
- Utilized Dynamic LDA to uncover latent topics within each event, reaching 82% accuracy in topic classification.

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## Technical Skills

### Machine Learning & AI

Proficient in Generative AI, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Neural Networks, and Time Series Forecasting.

### Tools & Libraries

Hands-on experience with GPT-, LangChain, TensorFlow, PyTorch and scikit-learn.

### MLOps & Deployment

Experience in building CI/CD pipelines and deploying ML applications using Flask and Streamlit.

### Programming Languages

Proficient in Python and R, with expertise in TensorFlow and Keras.

### Deep Learning

Strong expertise in Convolutional Neural Networks (CNNs), Long Short-Term Memory networks (LSTMs), and Natural Language Processing (NLP).

### Cloud Platforms

Skilled in deploying and managing ML solutions on Microsoft Azure and Google Cloud Platform (GCP).

### Data Visualization & BI Tools

Proficient in Tableau and Power BI for insightful data visualization and reporting.

### Big Data Technologies

Experience working with Apache Spark, Hadoop, and Kafka for scalable data processing and streaming.

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## CERTIFICATES

- Google professional Machine Learning
- Engineer Azure Data Science Associate
- Google Professional Data Engineer
- Google Data Analytics Professional
- GA Individual Qualification Certified
- MS Azure AI Fundamentals
- L2 Advanced Proficiency in KNIME Certified